DIPLOMA EXAMINERS' REPORT - 2011/2012

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INTRODUCTION

This report has been compiled with the primary aim of assisting those who are preparing to sit Diploma Examination Papers in the future. It will also be of benefit to lecturers, course co-ordinators, tutors and mentors. It aims to give brief comments on candidates' answers to each question, as well as highlighting common pitfalls and successes. It is designed to provoke constructive thought as much as to give all the answers. Comments on individual questions are preceded by some statistics and general comments. In some instances, guidance notes are supplemented by extracts from candidates' responses. Where appropriate, advice is given on where additional marks could have been gained. Whilst examples are not provided for every question set, there are examples of sections from each of the specific styles of question – coursework assignments, tasting questions and theory questions from closed book papers. In each instance, the scripts have been selected to illustrate good coverage of either the topic as a whole, or a specific sub-section of it.

It should be borne in mind that these are not the definitive answer to any of the questions. Some may omit a number of facts, or in the case of the coursework assignments, may express a degree of personal opinion rather than fact. Nevertheless, they are reproduced here because they are a good representation of the standard required to pass or excel in the Diploma examination. In some instances, we have also included less than perfect answers. These illustrate the difference between a very good script and one that requires more work to reach the standard to justify a pass, or in some instances to illustrate what is not acceptable in an examination of this level.

Candidates' responses published in this report were actual submissions in the 2011-12 examination cycle and as such are anonymous and are reproduced as submitted to the examiner. In some instances, they will contain information that is incorrect.

It is suggested that candidates revising and preparing for a particular type of question - tasting, paragraph, essay etc - read all comments on similar questions, as these often contain general advice, which is applicable across the board. Therefore, the candidate preparing for Unit 4, 5 or 6 may also find comments relating to both tasting and theory in Unit 3 helpful.

On a final note, as always, I would like to convey my thanks to all those who contribute their time and expertise to help the Awards team put the Diploma examination together and who contribute to the success of this qualification both in the UK and overseas.

To the internal and external members of the Examination Panel, the Moderating Panel, the examiners, the administration teams in the Diploma Approved Programme Providers, the examination invigilators and tasting teams who work so hard behind the scenes on the big day, the Results Panel and the Appeals Panel – my thanks to all of you!

Janet Bangs Chief Examiner, WSET Awards December 2012

STATISTICAL ANALYSIS				
Comparative Pass Rates by Paper				

Paper		2012			201	1	20		2010		2009		2008		20	07
Unit 1 CWA	Apri 90%		Nov 91%	April 88%		Nov 91%	Apri 75%		Nov 90%	Apri 99%		Nov 82%	(1)			
Unit 1 Case Study	Nov 87%	Mar 68%	June 74%	Nov 83%	Ма 679		Nov 76%	Mar 71%		Nov 68%	Mar 77%		Not applicable			
Unit 2		93%			90%		88%		88%		81%		84% 81%		%	
Unit 3 Tasting	June 74%		Jan 66%	June 85%		Jan 72%	June 62%		Jan 62%	June 78%		Jan 76%	June 69%	Jan 63%	June 63%	Jan 55%
Unit 3 Theory	June 43%		Jan 46%	June 54%		Jan 34%	June 66%		Jan 49%	June 59%		Jan 53%	June 63%	Jan 50%	June 59%	Jan 42%
Unit 4	67%		63%		61%		64%		60)%	70)%				
Unit 5	75%		70%		64%		74%		63%		69	9%				
Unit 6		65%			60%	0	66		66%		67%		61%		61	%

NOTES:

(1) Direct pass rates for Unit 1 are not given as this Unit was awarded on completion of four coursework titles.

GUIDANCE ON EXAMINATION PREPARATION

The Candidate Assessment Guide provides plenty of valuable guidance on how to approach the various assessments of the WSET Diploma qualification. This report contains additional information, not only here but also under the sections on individual question types.

This section of the report covers some general comments on the issues and problems that come up year after year and also gives guidance on pitching responses at the right level, plus an insight into examination grading criteria.

Supplementary reading

Candidates are reminded that the Study Guides issued by the WSET contain an overview of each section of the syllabus only and make frequent reference to additional sources of information. Candidates should be warned that the examination panel specifically refers to material listed as "required reading" when setting examination questions. Candidates who limit their study to the Diploma Study Guides in isolation run the risk of coming unstuck in the closed book examinations as a result. These additional sources of information should be just as much part of a study plan as the Study Guides themselves, and for candidates intent on achieving high grades; the importance of study beyond the "required reading" cannot be underestimated. In addition, there is clear evidence that candidates are not reading the Candidate Assessment Guide. This has been written specifically to help them prepare for assessment, and gives very clear guidance on the approach to assignment writing and the candidates' obligations in this respect, as well as general exam technique. Candidates who do not read this document may not reach their full potential in the examination.

Commercial awareness

Unit 1, The Global Business of Wines and Other Beverages specifically examines candidates' commercial awareness through the means of coursework assignments and the closed book case study. There is some evidence that candidates are ignoring the fundamental fact that wine and spirit production and trading are business enterprises, and therefore fail to bring a commercial approach to their answers where appropriate. All coursework assignments have a commercial focus and a pass cannot be achieved simply by reiterating facts relating to production methods. Titles for the 2012/13 coursework assignments are on the WSET website under <u>www.wsetglobal.com/qualifications/diploma</u>. Titles for the 2013/14 academic year will be published at the end of May 2013.

Examination Technique

Taking note of these can make a big difference to your examination result.

- Answering the question as set.
- Writing legibly and presenting answers clearly.
- Avoiding careless errors such as mis-spelling a word contained in the question.
- Applying the Systematic Approach when answering tasting papers

In addition, we have noticed that candidates who take advantage of "examination preparation schemes" perform considerably better on the day than those who do not. Many of the Diploma Programme Providers run such schemes for their candidates.

Where these are not available, candidates can apply to join the Wine & Spirit Education Trust's Diploma Assessment Preparation scheme (DAPs) and should speak to the administrator at their Approved Programme Provider in the first instance.

Levels of Assessment Skills

Having an idea of the kinds of skills that are being assessed will help candidates to direct their study effectively and write an answer that demonstrates they have these skills. Consider the following types of assessment, and how each successive one requires a deeper level of expertise:

- Factual Recall (how things are)
- Explanation (how things could be and why)
- Analysis (how things might become and how they ought to be)

Factual Recall

Factual recall tests basic knowledge. This usually takes the form of an answer to a 'what', 'where' or 'who' question. This knowledge can be simply recalled, if known. This is the simplest form of assessment and success can be achieved through "learning by rote".

Sample question	What style of wine is Châteauneuf-du-Pape?
Answer	Full-bodied red wine with relatively soft tannins, lowish acidity and high alcohol.

Factual Recall + Application

Factual recall can be combined with application to assess to a greater depth. This is commonly achieved by putting the question into a relevant context, e.g.:

Sample question	A customer asks you to recommend a soft, full-bodied red wine. What would you recommend?
Answer	Châteauneuf-du-Pape. (<i>This is obviously only one of several legitimate answers.</i>)

No matter how many facts the candidate has memorised, these do not constitute an **understanding** of a subject area. If the facts have been learnt by rote, the candidate either knows the answer or not. Using insight to work out what would be a correct answer, when the answer is not known, only comes at the next level: explanation.

The lower level WSET qualifications (Foundation, Intermediate and Advanced Certificate) mostly limit themselves to testing factual recall, assessed via multiplechoice format questions.

In the Diploma, the multiple choice Unit 2 examination, and the questions that require the candidate to write a paragraph about given topics which appear in units 3, 4, 5 and 6 are also mainly testing factual recall and recall + application. Factual recall will get candidates a reasonably long way in the WSET Diploma, but is not sufficient to guarantee success in Unit 1, and is unlikely to be adequate for the Unit 3 theory paper either.

Explanation

Explanation goes beyond 'what', 'where', and 'who', and asks 'why'. This type of question tests not just memorised knowledge of the subject, but understanding as well. This is because in order to explain something, the candidate needs to know not just '*what is the case'* but '*what would be the case if things were different*'. This kind of 'counterfactual' understanding is achieved by spotting patterns in the basic facts, and deducing explanatory mechanisms behind them. Alternatively, a tutor could explain the mechanisms. However, if the candidate then finds that they have to memorise this information, it is a clear sign that they have not really understood it, and will not be able to apply the mechanism themselves in other scenarios, such as in the examination itself.

The human brain naturally tries to find patterns in data – though some people are able to do this more easily than others. These patterns mean that a lot of information can be deduced from a few simple principals. The skill of explanation is a higher order skill than recall, but the amount of data that needs to be memorised is less.

Sample question	Why is Châteauneuf-du-Pape a full-bodied, high-alcohol red wine with relatively soft tannins?
Alternatively	Account for the style of Châteauneuf-du-Pape, or explain the style of Châteauneuf-du-Pape.
Answer	The Grenache grape naturally gives wines that are high in alcohol, and full-bodied, but with soft tannins. The hot ripening conditions due to the location in sunny Southern France, aided by low-trained bunches benefitting from heat reflected from the ground also helps achieve fully ripe tannins and speeds sugar accumulation in the grapes.

A much more detailed explanation is also possible of course, and would be expected in the examination itself.

The basic facts (hot climate, Grenache-dominated blend) could be memorised and recalled, but what makes this a question about *understanding* rather than *factual recall* is the implication that if these causal factors were altered, then the style of Châteauneuf would change. For example, if the climate were cooler, then alcohol levels would be lower, and the tannins less ripe, or if more Carignan (or Cabernet) were used in the blend, then the wine would have firmer tannins, lower alcohol and less body.

Explanation + Application

Just like factual recall, explanation can also be applied to a particular situation to assess explanation combined with application. This is where the counterfactual implications of the causal process are explicitly put to work. For example, if X were not the case, then B, rather than A would be the outcome.

Sample question	You are a producer of Châteauneuf-du-Pape and one of your important clients has requested a wine with lower alcohol. How can you meet this demand?
Answer	This would take the form of a list of things you could do to achieve this style, such as altering the blend to include less Grenache; sourcing grapes from cooler sites; increasing yields; using the vine canopy to shade the ripening fruit; retraining the vines to raise the fruiting zone; using open fermenters and low- conversion yeast strains, etc, etc

The WSET Diploma assessment, particularly the essay-format questions in Unit 3, aims to test *understanding* of the subject, rather than an ability to *recall facts*, but there is another level above this which should be considered during preparation for Unit 1. This is *analysis*.

<u>Analysis</u>

Analysis requires you to draw conclusions from the facts and the causal mechanisms behind the facts. This might involve issues such as:

- Identifying and extrapolating trends to make predictions.
- Identifying which of a set of explanations is the most likely, or which of a set of causes is the most important.
- Identifying what the consequences of something are.

Sample question	Average alcohol levels in Châteauneuf-du-Pape have been rising over the last ten years. What are the main reasons for this and to what extent is the trend likely to continue?
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Answer	An important point here is that in this context the inclusion of
	the word 'main' (as in 'main reasons') is not making life easy by limiting responses to <i>some</i> rather than <i>all</i> of the possible
	reasons. It is challenging the candidate to identify which, of all
	the possible reasons, are the most important ones. Once these have been identified, the candidate would have to argue
	to what extent they are likely to continue to have an effect.

Analysis + application

In the same way that recall of knowledge and explanatory skills can be "applied", so can analysis. This usually takes the form of making recommendations.

Sample question	What, if anything, should producers in Châteauneuf-du-Pape do in order to slow or reverse the trend towards increasing alcohol levels?
Answer	Note the subtle difference between 'what <i>can</i> they do' (a list of possible responses, as set out under 'explanation + application' above) and 'what <i>should</i> they do'. In order to establish what producers should do, it is necessary to consider the possibilities, and argue which of these are going to be the most prudent or effective and this forms the basis of the response to the question.

Summary

As candidates progress through the various levels of WSET Qualifications, they move from learning 'what wines are like' to understanding 'why they are like that'. An understanding of the six factors taught at Level 3 will form an excellent foundation for Units 3, 4, 5 and 6, but Unit 1 offers the chance to go beyond 'what the world <u>is</u> like' and '<u>why</u> it is like that' to examine 'what the world <u>could</u> be like', 'what it <u>should</u> be like' and 'what we should do about it'. These are far more interesting and challenging questions than mere factual recall. They should inspire candidates to explore the possibilities as they ponder them and hopefully find some convincing solutions.

Examination Grading Criteria

Grade bandings for the Diploma examination are largely determined by the content of the submission judged against the "marking key" or "marks schedule" for each question. For example, the candidate covering 75% or more of the content defined in the marking key has a good chance of achieving a distinction grade. However, there are also other elements that come into play beyond pure factual content. The grade bandings are summarised below:

Fail Unclassified <44%

Seriously inadequate answer, through lack of information, or errors, demonstrating in general a very weak understanding of the subject. Insufficient evidence of understanding to award a pass, through brevity, lack of detail or inaccuracies.

Fail 45 to 55%

Borderline candidate, who whilst close to a pass does not give the examiner enough to award a Pass grade. Insufficient evidence of understanding to award a pass, through brevity, lack of detail or inaccuracies.

Pass 55% to 64%

The candidate demonstrates an adequate understanding of the topic, covering sufficient of the main points to be "more right than wrong." A basic answer, with limited use of examples and depth of information, which may contain some errors.

Pass with Merit 65% to 74%

There should be evidence of clear understanding here, with a greater factual coverage, and better depth and accuracy of information and examples. Very sound, but without the extra edge for a pass with distinction.

Pass with Distinction >75%

The candidate should demonstrate a thorough and accurate understanding of the subject in depth, and show some flair, creativity or originality in analysis, argument or choice of examples.

COMMENTS ON INDIVIDUAL QUESTIONS

Unit I, The Global Business of Wines and other Beverages

Before commenting on each specific assignment title, here are some general comments about the grading of coursework assignments:

All assignments are graded out of 100. Of this, 20 marks are available for the candidate's handling of the assignment. This includes the diversity of the bibliography, the presentation of the work in terms of spelling, grammar and legibility and the structure and style of the assignment. The latter incorporates issues such as coherence, flair, fluency, use of illustrative examples and the candidate's method of approach to the assignment.

The allocation of the balance of 80 marks varies according to the individual assignment and will be detailed as appropriate under each Assignment Brief.

In terms of presentation, marks will be lost where work is presented with spelling and/or grammatical errors. With spell checkers on all PCs, there is really no excuse for errors of this kind. Structure is also important, particularly if candidates do not follow the format dictated by the various sections of the Assignment Brief, as an automatic fail grade is awarded where any section is not addressed. The bibliography is an essential part of the assignment and those submitted without one are penalised as a result. Many candidates appear confused over the difference between a bibliography and "Reference Notes". The Candidate Assessment Guide explains this. The bibliography needs to draw on a variety of sources – books, magazines, internet, interviews - and certainly needs to have strong commercial evidence of the kind that can be obtained from trade journals such as Drinks Business, or Just Drinks. These are vital for identifying trends and topical issues. The internet features strongly in many candidates' bibliographies. This is fine, so long as there are other sources as well, such as text books, personal contact with subject experts and trade press. There is however a worrying dependence on "unreliable" sources such as Wikipedia. The bibliography should be correctly referenced throughout the body of the assignment - something very few candidates actually do. This is where the "reference notes" or footnotes come into play. Guidance on this is given in the Candidate Assessment Guide. Failure to follow this will result in lower marks in this section of the Assignment Brief.

A number of examiners have commented on misuse of footnotes and appendices. Some assignments are submitted with footnotes which account for up to half of each page of the assignment. This is simply abusing the restriction on the maximum permitted word count and in such cases their content is not included in the marking process. In addition, some candidates submit excessive quantities of appendices. In many instances, these are not even referenced within the body of the assignment and their purpose is therefore questionable. There is a general feeling that these are often included to show how much work had been done but they are often actually surplus to requirements. Next, a few words on the use of the SWOT analysis in coursework. Whilst these do have their uses, some candidates include them indiscriminately without really making any conclusion regarding their findings. At worst they can be repetitive, of limited relevance, and eat into the word-count with little to show for it. At best they can highlight key points, generate imaginative thought and clear the mind. They should be used with caution and should never form the bulk of the work unless the assignment brief instructs you to do so.

Finally a couple of general comments that apply to all assignment writing. Candidates are reminded that work submitted for assessment purposes must include no personal identifier beyond the candidate number – names should not appear on work in any format beyond the signature on the front sheet. Some pieces of work submitted show signs of collaboration or "leading" by the Approved Programme Provider, or in the worst cases, plagiarism or simply copying another candidate's work. There have been some appalling instances of candidates simply lifting huge sections of work from papers published on the internet. Where this has been detected, a fail grade has been awarded. Candidates must remember that assignments are to be the sole work of the individual submitting them and they should be in no doubt that it is always very obvious to the examiner where this is not the case. The penalties in such instances can be very severe indeed, and in repeated instances, will lead to the candidate being barred from completing this qualification.

Coursework Assignments

November 2011

The role of science and technology in wine production.

Required content and suggested approach

Viticulture and winemaking have changed dramatically over the last 50 years. Advances in science and technology have allowed producers to take a much more active role in fashioning their wines. In many cases, they are no longer powerless when things go wrong. Science and technology have also allowed much more efficient and profitable wine production. Whilst some developments may be controversial, others clearly bring benefits for both producers and consumers and therefore ultimately for the wine industry as a whole.

Answers: 353

Passes: 321 (91%)

The open book coursework assignments always generate high marks, and this was no exception. Where lower marks were achieved, this was invariably because candidates strayed from the candidate brief, for example by not paying enough attention to the weighting of the various sections and therefore failing to bring enough emphasis to the key parts of their assignment.

For this assignment, candidates were initially required to give an overview of how science and technology have improved or altered viticulture and winemaking over the last 50 years. This should have encompassed work in the vineyard, processes in the winery and improvements in bottling. Having identified the key developments, they were then required to select two specific areas of scientific research or technological progress that have been applied to wine production, one relating to viticulture and one to winemaking. They were asked to explain what these were, how they worked and how they were applied in the wine industry and then to discuss the impact of these two developments on the wines produced. Finally, there was a section where candidates were invited to consider what developments in science or technology were likely to have an impact on wine production over the next 20 years. This was where better candidates shone, as answering this well relied on an ability to express personal opinion rather than simply paraphrase information uncovered in the course of research.

The following script achieved high marks. It is clear and well written with a good introduction, good choice of the two areas of scientific research/technology and a good balance of emphasis in correlation to the weighting of the various sections of the assignment. It included an extensive bibliography which was referenced throughout the assignment and some useful appendices, one in particular, setting out "milestones in wine since the 1960's" in table format, which is also reproduced here.

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The Role of Science and Technology in Wine Production

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Section I : Introduction - The Last 50 years

Wine does not make itself, and human intervention is required. Thus technology, accidentally or through scientific innovation, has always played an important role in wine production. But in the last 50 years, the role of science and technology has been particularly transformative, as it has led to the industrialization and globalisation of wine. Michael Mondavi noted "We've converted from being a cottage industry into a competitive consumer luxury-goods industry."¹.

The scientific approach to wine production probably really came into prominence in the second half of the 20th century with Emile Peynaud². By applying rational analysis to bring vinification into the modern era, he developed the role of the "consultant oenologist", who can advise wine producers across geographies, which started the modernisation of much of the "Old World"³. Recognising the importance of yeast, bacteria and temperature, wine-makers were able to now achieve better control over fermentation and faults, by having cleaner winery environment, using dry yeast, stainless steel, filtration and refrigeration.

By the early-80s the "Old World" accounted for 74% of the global export trade⁴. And it was around this period, when the University of California, Davis in the USA, and the institutions around Adelaide, Australia⁵ that started to really dominate development of oenology and viticulture, driving innovation through to the present day.

Not surprisingly, this also corresponded to the dramatic increase in market share in global trade of the "New World"⁶. From a mere 1.6% share in 1975-79, this group of countries accounted for 29.3% of global exports by 2005-09⁷.

The list of scientific innovation that drove this growth is long (see Appendix II), and the technology was increasingly applied globally by new generations of consultants or "flying winemakers"⁸. This has led to the development of what is considered "international styles"⁹ of wine, wines that reflect the vision of the winemaker, palate of dominant critics, and perceived consumer preferences, rather than the characteristics of any local *terrior*.

It was at this stage, when a symbiotic relationship was formed between the increasingly dominant multi-grocers and the increasingly industrial producers. National advertising and brand building required large volumes of faultless, homogenous and consistent wines, which were approachable, fruit forward and affordable. Technological development facilitated this.

¹ Lewin, B. MW (2010) page 187

² Lewin, B. MW (2010) page 193

³ Defined as France, Italy, Germany, Spain and Portugal

⁴ See Appendix I, Chart 1

⁵ E.g. University of Adelaide and the Australian Wine Research Institute

⁶ Defined as USA, Australia, New Zealand, South Africa, Chile and Argentina

⁷ See Appendix I, Chart 1

⁸ Robinson, J. MW (2006) page 276

⁹ Lewin, B. MW (2010) page 194

In the vineyards, that meant development of irrigation systems and chemical pesticides/fungicides, to facilitate large-scale plantations. Better control over the ripening period was achieved through new canopy management system (of which Dr. Richard Smart has been the key innovator¹⁰). Mechanical harvesting and pruning were developed to reduce cost. And Precision Viticulture was also adopted to optimise the management of these estates.

As for the winery¹¹, scale and efficiency was achieved through huge rotory fermentors and horizontal presses. Enzymes and commercial yeasts were used to control extraction and fermentation. Refrigeration was used to deliver fresher aromatics. Established must and wine adjustments (e.g. chaptalization and acidification) were now augmented by spinning cones and reverse-osmosis. Stability of the wine could be achieved with increasingly better filters (e.g. cross-flow), additives and heat treatments. Even colour was added to deliver what is perceived to be the consumer's preference for deeper red wines. Micro-oxygenation could be used to soften tannins, and make wines more fruit forward. Currently, EU law allows some 60 additives in wine¹².

In the UK, the significance of all these developments has been dramatic. ¹³By 2010, the off-trade accounted for 85% of wine sold, and supermarkets accounted for 84% of those sales; 98 million cases were sold in that year, when only 36 million cases were sold in 1991. Within the last 10 years, the "New World" has also overtaken the "Old World" as the main source of imports for the off-trade¹⁴.

Although the wine market has always been fragmented, "now there is polarisation between wine as a commodity to be sold on price, and wine as a luxury"¹⁵. In 2010, "Commodity" wines that retail for between £3.01-5 a 75cl bottle accounted for a significant 71.1% of volume, whereas "Fine" wines that retail for more than £9 only accounted for 1.5% of the volume¹⁶.

As the pace of industrialisation grew it was expected that there will be a backlash. In 1995, Clark Smith, a wine-technologist in California, wrote a provocative article asking, "Does UC Davies have a theory of deliciousness?"¹⁷. His concern was that the now dominant scientific approach to wine production is stripping wine of its soul, with the focus on removing perceived faults, rather than a more holistic exploration of expressiveness and diversity.

The reaction was felt most keenly in the "Fine" end of the market. Starting in the vineyard, and perhaps reflecting a similar movement in the food industry¹⁸, organic

16 See Appendix I, Chart 3

¹⁰ See e.g. Goode, J. (2005) Chapter 10

¹¹ See e.g. Bird, D. MW (2005)

¹² Legeron, I. MW (2011) page 41

¹³ WSET (2011) pp. 22-24

¹⁴ See Appendix I, Chart 2

¹⁵ Rand, M. (2011)

¹⁷ Smith, C. (1995)

¹⁸ Goode, J. and Harrop, S. MW (2011) page 6

and bio-dynamic practices are increasingly adopted¹⁹, even in important Bordeaux estates like Chateau Climens²⁰ and Chateau Pontet-Canet²¹. At Pontet-Canet, they have even stopped using the ubiquitous tractors and have gone back to the horse-drawn plough²². Although claims of better expressiveness and quality through these changes are difficult to establish definitively, the investments have been considerable.

It is also development in the winery - the "Natural Wine" movement, which has really caught the attention of the wine media, and also the broader consumer²³. Although there is no strict definition of what is "Natural", proponents focus on the principal of "minimal interventation" – no additives, no manipulation, no filtration and very limited or no use of sulphur dioxide²⁴. As an example, Tom Shobbrook²⁵, a "Natural" winemaker, harvests purely by taste, without any Brix readings. And in his winery, he has no laboratory carrying out chemical analysis of the fermenting and maturing wines. This is in stark contrast to most of his neighbours in the Barossa valley in Australia.

The movement has spawn fairs, specialist retailers and wine-bars²⁶, e.g. Terrior and Bar Battu in London. In France, *vin naturel* already has a strong following. Although it is clearly currently a small subset of the wine industry, it would be interesting to see if this quest for authenticity will become increasingly important in the years to come, and will be discussed in Section III.

Section IIa : An example of the impact on Viticulture: Precision Viticulture

Grapegrowers have always known that topography and variable soil characteristics can lead to variation in the productivity of blocks of vines within vineyards. This is particularly important in the "New World", where growth and cultivation of vast areas of new vineyards means there isn't a wealth of centuries-old experience to rely on. Unlike, for example Burgundy, where plots are much smaller, and how to manage variations within plots have been passed down through generations²⁷.

Dr Rob Bramley, a researcher with the Commonwealth Scientific and Industrial Research Organisation, have indicated that an eight to tenfold variation in yield is typical within a single block under uniform management, which equates to a range of between two and 20 tonnes of grapes per hectare. This will lead to a corresponding variation in the quality and characteristic of the grape harvested²⁸.

¹⁹ Cole, K. (2011)

²⁰ Millar, R. (2011)

²¹ Morrison, F. MW (2011)

²² Private visit to Chateau Pontet-Canet, March 2011

²³ See e.g. Eyres, H. (2011)

²⁴ Legeron, I. MW (2011)

²⁵ Private visit in May 2011.

²⁶ Legeron, I. MW (2011)

²⁷ Goode, J. (2005) page 37

²⁸ Hardie, J. (2006) page 58

To address this issue, a relatively recent development in farming, called Precision Viticulture (or "PV"), has increasingly been adopted. The PV approach relies on a range of enabling technologies, which has become increasingly affordable in the last 20 years. This allows for the digital collection and analysis of large amounts of data, relating to vine performance and attributes of individual production areas. Critically, this can be at high spatial resolution. These enablers include Global Positioning Systems (GPS), Geographical Information Systems, yield monitors that are attached to mechanical harvesters, and infrared aerial images that are taken by planes or satellites (remote sensing).

Armed with this information, vineyard managers can have a much more precise zonal map of their estate, and can adopt more targeted management. For example, using yield monitors and GPS, it is possible to map the yield variation in a vineyard. This pattern of spatial variation in performance tends to be constant through different vintage years.

One of the main benefits of this approach is selective harvesting - the split picking of fruit according to different yield/quality criteria. An example of this was observed at Vasse Felix in Margaret River. Instead of consigning all of the fruit from a particular block of Cabernet Sauvignon to a product with a retail value of AU\$19 a bottle, the winery was able to allocate the fruit from about half the block to a product worth AU\$30 a bottle²⁹.

In another example, the vineyard manager at Evans and Tate has identified different zones within their vineyards of varying yield and vine vigour. By picking on different dates, they can optimise the quality of the grape for each zone, and increased their gross return from 11,091 AU\$/ha to 13,468 AU\$/ha³⁰.

But the use of PV is not confined to selective harvesting. Another benefit of adopting PV and targeted management is that inputs to the vineyard (water, fertilisers, labour and machinery for pruning and crop thinning) can be more efficiently and precisely applied. In an environment where these input costs are rising³¹, and where the market continues to demand low price points, this is crucial for the financial sustainability of producers.

Another area of development is the use of PV for sophisticated experiments. One of the main aims of viticulture is to water-stress the vines, at the right time, to improve fruit quality. The Warwick estate in Stellenbosch has been using remote sensing to produce and cross reference maps of vine vigour and water-stress levels of their estate, to fine-tune this process³².

Not surprisingly, the early adopters of PV are the "New World" powerhouses Australia and California. But South Africa is not far behind, and estates in Chile and New Zealand are also now adopting it³³. In the next International Cool Climate

²⁹ Proffitt, T. and Pearse, B. (2004) page 41

³⁰ Proffitt, T. and Pearse, B. (2004) page 43

³¹ Proffitt, T. and Winter, E. (2008)

³² Goode, J. (2005) page 39

³³ Goode, J. (2005) page 38

Symposium, which will be held in Tasmania, a session will be devoted to the discussion of this topic³⁴.

Section IIb : An example of the impact on Winemaking: Micro-Oxygenation

In the early 1990s Patrick Ducournau, a winemaker in Madiran, was trying to smooth out the harsh tannins in his Tannat wines. Experimenting with different ways of using oxygen, he developed the Micro-Oxygenation process ("MOX", also known by the French term *microbullage*)³⁵. Although it is currently mainly used for a wide range of tannic red wines, there is still a lot of research into the process, and work has also been done on wines made from Chardonnay and Sauvignon Blanc³⁶.

MOX effectively mirrors the oxygenation impact wooden-barrel aging has on wine during *élevage*. Critically, the technology allows the winemaker to have a very precise control on the timing, rate and volume of oxygen injected into the wine, which is not possible with traditional methods.

The micro-oxygenation apparatus consists of a system of chambers and valves connected to a cylinder of oxygen. The gas is delivered into the wine, with a timer controlling the periodic injection of a predetermined dose, and the oxygen is diffused through a porous ceramic stone. Although oxygen-dispersing technologies can also have beneficial effects during fermentation³⁷, the first of two main phases³⁸ of the MOX process is usually applied when alcoholic fermentation is done, but before malolactic fermentation.

This is called the "structuring" phase. The oxygen is thought to oxidize ethanol to acetaldehyde, which encourages the phenolic compounds to polymerize. An important effect is to fix the colour of the wine, when anthocyanins form complexes with the tannin.

After malolactic fermentation, the "harmonisation" stage is carried out, usually with a much smaller volume of oxygen. This phase can last for several months, and is when the wine shed any form of vegetal characteristics, develop aromatic complexity, and the tannins soften.

This is a critical phase, and is where the technology is still very much a tool, and the use of it is an art. Unlike the first phase, where the impact of accidentally excessive use of oxygen could be corrected³⁹, mistakes made in the second phase are usually not reversible. Control and adjustments are done through constantly tasting the wine, and experience of the winemaker is important. In this phase, the technology can be used not just in tanks, but in barrels too, giving the winemaker an extra dimension of control over traditional barrel aging.

³⁴ See http://www.winetasmania.com.au/iccs/program

³⁵ Goode, J. (2005) pp. 97-100

³⁶ Rieger, T. (2000) page 86

³⁷ Robinson, J. (2006) pp. 442-443

³⁸ Bird, D. MW (2005) page 38

³⁹ Goode, J. (2005) page 100

The most obvious advantage of this technology is potentially lower costs for the winemaker. With the use of stainless steel tanks, MOX and oak staves or chips, producers have an efficient alternative to the more expensive use of oak barrels – especially for large volume production of more commercial wines.

There are other benefits that have been observed. MOX is also thought to help remove "green tannins" of lesser quality or under-ripe fruit. The precision with which oxygen can be injected also provides winemakers with a better handle on the balance between oxidative and reductive winemaking. And finally, it has also been shown to help produce big, rich, red wines that remain relatively supple, a style that has been fashionable in recent years.

Although the scientific analysis of the interaction of oxygen and wine is still being studied, the practical effects of this technology are already observed to be useful, and the method has been widely adopted.

The influential consultant oneologist Michel Rolland is an advocate⁴⁰, and in France, it is thought that at least 2,500 units are being used, especially in Bordeaux, and includes important wineries, like Chateau Canon La Gaffelière in St. Emilion⁴¹.

Clark Smith also estimates that 80 out of the 120 Chilean wineries, and all of the producers in the Central Valley of California, are users of this technology. It is actively discussed in Australia, and the American winemaker Randall Grahm is also a huge advocate. He believes that one day this technology will be seen to be as standard as temperature control in fermentation⁴².

Section III : Conclusion - The Next 20 Years

Science and technology has played a pivotal role in the development of the wine industry in the last 50 years. It was the driving force in the industrialization of wine production and has given winemakers the tools to deliver more consistent results, and at an attractive price point for the development of the market for new consumers.

Although there is now considerable media attention on the move to a more artisan, less technologically dependent, "minimal intervention" approach to wine production, it is likely to continue to only affect the "Fine", premium end of the market. It will be difficult to adopt this approach, deliver at the "Commodity" price points and volumes, and be financially sustainable⁴³. As Jancis Robinson notes " ... fine wine production is at a crossroads between authentic and over-manipulated. But to call for all of the most commercial, inexpensive wine to be made in a more natural, terroir-driven manner is surely whistling in the wind."⁴⁴

⁴⁰ Cutler, L. (2009)

⁴¹ Robinson, J. (2006) page 443

⁴² Goode, J. (2005) page 98 and 100

⁴³ See e.g. Lapsley, J. (1995)

⁴⁴ Robinson, J. MW (2011)

For the industrial production of wine, there are potential areas where there can be further significant developments. The first is to gain a more precise understanding of the basic biology of human perception and flavour preferences for wine⁴⁵. For other beverage industries, consumer taste-trials are used to fine tune flavour components. But given the inherent complexity and range, this is still rarely systematically done for wine. Consumer olfactory profiling might become common in the future and used to guide production decisions as well as marketing of wines.

Another area for potential development is right at the end of the wine-production process – closure and packaging. The cork versus screw-cap debate is well established⁴⁶. But other forms of technically and environmentally sensible packaging may play an increasingly important role too, as consumer stigma of what is unsophisticated wane⁴⁷.

Ultimately, the biggest challenge to wine industry for the next 20 years, could well be Climate Change⁴⁸. Although both viticulture and winemaking technologies could mitigate some these trends (e.g. better canopy management and irrigation through PV, use of Genetically Modified clones, reverse-osmosis to adjust alcohol levels), existing vineyard areas could likely have to be re-planted with different varieties, or new cooler areas may have to be found.

Therefore to avoid significant disruption to the wine industry, perhaps the role of science and technology is no longer confined to what is directly relevant to the wine industry⁴⁹. But it is about a holistic, global approach to sustainability and alternative energy, and much broader efforts at understanding and potentially mitigating Climate Change.

⁴⁵ Bisson, L.F. and Waterhouse A.L. et al. (2002) page 699

⁴⁶ E.g. Parker, R.M. Jr. (2011) and Goode, J. (2005) Chapter 19

⁴⁷ E.g. Asimov, E. (2011)

⁴⁸ Allen, M. (2010) Chapter 1

⁴⁹ Faris, S. and Penedes, V. del (2011) page 42

Appendix II : Table of Science and Technological Milesto	ones in Wine since the
1960s ⁵⁴	

Date or Time Period	Event			
1960	Development of first membranes for reverse osmosis			
1960	Introduction of balanced pruning			
1960	The concept of a horizontal drum pressed was patented			
1960s	Commercial use of growth regulators			
1960s	Continuous improvement of refrigerated stainless steel fermentors			
1960s	Development of high-level grafting techniques for top-working			
1960s	Development of the first vertical stroke action mechanical harvesters			
1960s	Elucidation of canopy management principles			
1960s	Indicator vines used for indexing of grapevine viruses			
1961	First continuous centrifuge			
1961	Introduction of broad-spectrum fungicides for powdery mildew control			
1962	First 'Potter' fermenters introduced			
1962	First Botrytis sweet Semillon made			
1962	Importation of vine cultivars			
1962	Use of temperature controlled wine storage facility			
1964	Further understanding of phenolic composition of grapes and wine			
1964	Stainless steel fermenters introduced			
1965	Application of bag-in-box packaging of wine			
1965	Development of metal twist-off bottle closures			
1965	Introduction of automated remuage for sparkling wine production			
1965	Introduction of first commercial active dry wine yeast starter cultures			
1966	Establishment of the complete genetic code			
1966	First new varieties brought into South Australia			
1966	New analytical method for the isolation of wine tannins			
1967	First use of sprinklers for frost control			
1967	Flow-tap for bag-in-box packaging patented			
1968	The beginning of the development of salt-tolerant rootstocks			
1969	Dried yeast introduced			
1969	First machine harvester brought to Australia			
1970s	Canopy management expanded across a range of climates			
1970s	Drip irrigation widely adopted in Australia			
1970s	Emergence of minimal pruning			
1970s	Further improvements in mechanical harvesting technology			
1970s	Importance of pH in red winemaking			
1970s	Improvements in mechanical harvesting technology			
1970s	Lyre trellis system developed			
1970s	Selection and comparison of Vitis vinifera clones became standard practice in Australia			
1970s	Stelvin sealed wines introduced into the Australian market			
1970s	Understanding of fundamental grapevine biology improved			
1972	Agglomerate corks			
1972	Development of the Potter drainer and fermentor			
1972	Import of first mechanical harvester in Australia and rapid uptake of mechanisation			

⁵⁴ Source: <u>http://www.winehistory.com.au/wiki/Wine_History</u>, a website managed by the Australian Wine Research Institude

Date or Time Period	Event		
1972	Rotary drum vacuum filter developed		
1973	Introduction of new fungicides for disease control in vineyards		
1973	Rotary fermentors developed		
1973	Spread of grapevine yellows elucidated		
1973	The first cloning experiments with recombinant DNA		
1974	The potent flavour compound damascenone identified in grapes		
1975	Flavour chemistry of Muscat varieties understood		
1975	Mechanical pruning of grapevines		
1975	Methoxypyrazines first identified in grapes		
1976	The first use of NIR for alcohol measurements		
1977	Chemical age index for wine published		
1978	Continuous screw press patented		
1978	First transformation of yeast with cloned DNA		
1978	Infrared aerial photography used for phylloxera detection ⁵⁵		
1979	Link between H2S production and must nitrogen content revealed		
1980	Climatic classifications published		
1980	Foamed thermoplastic resin cork patented		
1980s	A new biotype of phylloxera kills grafted vines		
1980s	Development of regulated deficit irrigation strategies		
1980s	Development of the Te-Kauwahata twin-tier and Scott-Henry training systems		
1980s	First DNA techniques for reliable wine yeast strain identification		
1980s	First hybrid rootstocks released		
1980s	Further development of mechanical pruning systems		
1980s	Interactive physiological effect of rootstocks on fruit composition		
1980s	Mechanisation of leaf removal, shoot positioning and lifting of foliage wires		
1980s	Minimal pruning shown to be valid in cool climates		
1980s	Relationship between pH and SO2		
1980s	Release of improved French hybrid varieties		
1980s	Research on the effect of harvesters on the dispersal and spread of crawlers		
1980s	Research on the effect of mechanised crop thinning, pruning and harvesting		
1980s	Role of grape derived precursors in releasing monoterpenes recognised		
1980s	Rootstock resistant to all phylloxera biotypes released		
1980s	Screw cap wines largely removed from the Australian market		
1981	Continuous starter culture production		
1981	Patent for diaphragm press filed		
1982	Cork taint		
1983	First use of HCN as dormancy breaker for improved budburst		
1984	Wine aroma wheel developed		
1984	Yellow speckle viroid detected in grapevine		
1985	A patent filed for the use of reverse osmosis for alcohol reduction		
1988	Foundation of the Australian Vine Improvement Association		
1988	Patent filed for Spinning Cone technology for alcohol removal and aroma capture		
1990	Application of ethephon and paclobutralzol to inhibit vegetative growth		

⁵⁵ Discussed in Section IIa

Date or Time Period	Event	
1990	First genetically engineered prototype wine yeast	
1990s	Australian producers begin to return to the screw cap	
1990s	Development of Partial Rootzone Drying (PRD) irrigation	
1990s	Development of integrated mechanical pruning and harvesting systems	
1990s	Development of mechanical shoot thinning machines	
1990s	Development of more precise barrel prunning machines	
1990s	Glycosidase enzymes for liberating bound flavour commercially applied	
1990s	Introduction of precision agriculture through remote sensing technologies ⁵⁶	
1990s	New MLF cultures introduced	
1990s	Recognition that numerous flavour compounds in wine derive from glycoside precursors	
1990s	The Smart-Dyson system for control of bunch exposure developed	
1990s	The release broad-spectrum strobilurin fungicides	
1991	Development micro-oxygenation technology ⁵⁷	
1992	Biologically-effective day degrees adjusted for latitude and daily temperature range	
1992	New hybrid wine yeast strains developed and commercialised	
1993	Commercialisation of the first freeze-dried cultures of malolactic	
1993	DNA fingerprinting used for grape variety identification	
1994	Patent filed for a reverse osmosis process to remove unwanted substances	
1995	Flavour precursor G-G assay developed	
1996	Characterisation of the malolactic enzyme system	
1996	Genetic bluepint of first Saccharomyces cerevisiae revealed	
1996	Method for measuring grape colour developed	
1997	First systematic review of stuck fermentation	
1998	Amino acid precursors in grapes release potent thiol compounds	
1999	Benchmark trial of different bottle closures	
2000	Clare Valley producers bottle 2000 vintage Riesling under screw cap	
2000	First application of consumer acceptance testing in wine research	
2000s	Approaches to minimise risks of spoilage by Brettanomyces	
2000s	Better understanding of the relationship between tannin and quality	
2000s	Commercialisation of a flavour-enhancing mixture of three wine yeasts	
2000s	Commercialisation of a wine yeast for the reduction of ethyl carbamate formation	
2000s	Commercialisation of wine yeasts for the reduction of H2S	
2000s	Commercialisation of malolactic wine yeast	
2000s	Commercialisation of new interspecific yeast strains	
2000s	Construction of a wine yeast deletion library	
2000s	Detection of compounds in smoke affected grapes & wine	
2000s	Development of flavour-enhancing wine yeast prototypes	
2000s	Development of in-bottle measurement of oxygen	
2000s	Development of low-alcohol wine yeast prototypes	
2000s	Discovery of thiols in fruity white wines	
2000s	Elucidation of relationship between anthocyanin degradation and berry temperature	
2000s	Flavour scalping by some bottle closures	

⁵⁶ Discussed in Section IIa ⁵⁷ Discussed in Section IIb

Date or Time Period	Event	
2000s	Links between composition and perceived coarseness in white wines explored	
2000s	Malolactic bacteria found to increase oakiness in wine	
2000s	Nitrogen management in vineyards and winery for optimal wine quality	
2000s	Precision agriculture and remote sensing	
2000s	Rapid spectral methods developed to analyse anthocyanins and predict tannin	
2000s	Salt-tolerant rootstocks released	
2000s	The use of oak chips permitted in the EU	
2000s	Tools with which to manage environmental conditions	
2000s	Varietal differentiation of grape juices by protein fingerprinting	
2005	Development of a simple tannin assay	
2005	Genetic blueprint of the first malolactic bacterial strain revealed	
2007	Discovery of rotundone in peppery Shiraz	
2007	Genetic blueprint of the first grapevine variety revealed	
2008	Elucidation of relationship between berry and wine quality	
2008	Genetic blueprint of the first wine yeast strain revealed	
2009	Chemical characterisation of wild ferment wines	
2009	Crystal structure for grape haze-forming protein solved	
2009	Discovery of cineole as the cause of minty eucalypt character in red wind	
2009	Expanded consumer preferences studies in emerging markets	
2009	First commercialisation of a true Saccharomyces bayanus yeast for enhancing wine flavour	
2009	Genome sequencing and comparisons among grape varieties and clones	
2009	Genome sequencing and comparisons among malolactic bacteria	
2009	Genome sequencing and comparisons among wine yeasts	
Beyond 2010	Automated expert systems	
Beyond 2010	Bio-pesticides	
Beyond 2010	Continuous systems	
Beyond 2010	Genetically improved bacteria, yeasts and grapevines	
Beyond 2010	Heat-proof management systems	
Beyond 2010	Native plants as cover crops	
Beyond 2010	Objective quality measures	
Beyond 2010	Objective definitions of wine styles	
Beyond 2010	Predictive Biology	
Beyond 2010	Real-time yield estimations	
Beyond 2010	Real-time, automated irrigation systems	
Beyond 2010	Robotic pruners and other devices	
Beyond 2010	Selective mechanical harvesters	
Beyond 2010	Synthetic Biology	
Beyond 2010	'Omics, bioinformatics and Computational and Systems Biology	

In contrast, the following candidate achieved a fail grade because they did not follow the assignment brief. There is no overview of developments over the last 50 years and they have limited their consideration of developments for the next 20 years to the two examples they have selected rather than taking a broad approach looking at all possible developments. However, on a positive note, they have included as an appendix a record of questions posed to Randall Grahm of Bonny Doon winery. This was good evidence of personal research.

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Introduction

The two areas of technological progress that this essay will focus on are precision viticulture (PV) and Micro-oxygenation (Mox).

Briefly, PV is a technology that is used in a vineyard to calculate various factors affecting the estate, thus allowing the vineyard owner to make an informed decision the best time to act. It was established in the 1990s, however, its recent popularity has been due to its greater affordability (Goode 2005), and this popularity looks set to grow yet further as new techniques (e.g. GPS and aerial photography) makes the technology more accessible. Furthermore, in a world with an ever-increasing population (soon to reach 7 billion according to Murrey (2011)), which is already putting pressure on existing agricultural land, greater efficiencies are needed in the wine production process.

Turning to the second area of technological progress, Mox is a process whereby oxygen is carefully injected into the wine either before or after fermentation. This mimics the effects of slow barrel maturation within a shorter period of time and for less of the longterm cost associated with oak barrels, both of which reduce overall production fees. It also enables more control over the maturation process, when compared to the barrelaging technique where the vintner will find it harder to monitor the wine developing. Oxygenation has always been a vital part of wine production. Hornsey (2007) highlights a number of key oxygenation stages in traditional winemaking techniques. For example, barrel-aged wine can be from oak staves or, during the racking process, or, when the barrel is being topped up with more wine. All of these stages were well established, long before wine production became the subject of scientific study.

This essay will start by looking into the development of PV and Mox in the wine industry, it will then consider their current usage and the associated benefits, before turning to likely future advances and possible applications.

Background

PV

PV encompasses many modern technologies but in particular global positioning systems (GPS), geographical information systems (GIS), remote sensing (RS) and yield monitoring.

GPS became available in the 1980s as a result of the American military setting up 24 geostationary satellites, allowing the user to identify where they are at all hours of day. Garmin (2011).

RS, according to Google A (2011), is the surveying of the earth by aircraft or satellite. According to Foss (2011) there are two types of RS: Passive Remote Sensing (PMS) and Active Remote Sensing (ARS). PMS equipment, such as video or photographic cameras, monitors natural radiation that is emitted or reflected by the object or surrounding area being observed. Foss (2011) explains that ARS equipment, like radar, differs from PMS by emitting radiation and then detecting and measuring the radiation that is reflected from the target.

GIS is a system for collating and storing the data collected via RS. Once a vineyard has been mapped, the data collected over time can be interrogated to identify variations (such as berry ripeness) across the site, which could then be used to work out, say, when to green harvest.

With the help of GPS, GIS and RS, Goode (2005) suggests PV allows vineyard owners to create specific maps of differing "fields" in the vineyard, enabling owners of substantial estates to prioritise which fields to harvest.

Goode (2005) states that PV is used in different ways in various countries, such as the Californian system, which involves taking a vast number of images at different altitudes, usually by airplane. This system is similar to a Normalised Difference Vegetation Index (NDVI), which uses infra-red pictures, taken from a plane, which can monitor the vigour of vines, indicating green for high vigour areas and red for low vigour areas. Prestige wineries such as Mondavi use the NDVI method.

The Australian system uses a method, according to Goode (2005), of combining yield intake and GPS to create a yield map. They can calculate the yield intake through grape

harvesters, which is a highly popular approach. A GPS system is attached to the harvester to generate a detailed map of harvest quality and intake.

Both types of PV have positive and negative points. NDVI gives a better overview of the vineyard, however, it does require the cost of renting a plane equipped with the appropriate imaging equipment and pilot trained in their usage to perform the task. The Australian system is a cheaper but slower system. However, both systems appeal to premium and regular quality vineyard owners.

Mox

The Mox process is summarised by Goode (2005) as follows: a porous ceramic stone is placed at the bottom of a tall tank and gradually lets off small oxygen bubbles into the liquid; the height of the tank must be tall enough to allow the oxygen bubbles to be absorbed into the wine before evaporating at the top. The dosage is controlled and can range anywhere from 0.75 to 3 cubic centimetres per litre of wine. Figure 1 below illustrates this.

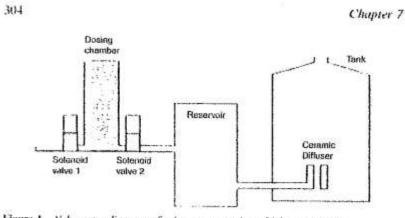


Figure 1 Schematic diagram of micro-oxygenation (MOx) equipment (Reproduced by kind permission of Dr Thierry Lemaire) Figure I Hornsey (2007)

Hornsey (2007) states that the technology began when Patrick Du Cournau and Thierry Lemaire started to test the theory on the wines of Madiran in southwest France, in an attempt to balance the exceptionally high levels of tannins in the local Tannat grape (other examples of tannic grapes would be Barbera and Malbec). The success of this

discovery flowered into a commercial venture called 'Oendev' in 1996 and according to Hornsey (2007) Mox is now widely used across France and the United States of America. Grahm (2011) suggests that reason for Mox's use in America and the New World is that the local wine makers love to manage every aspect of wine making and Mox is just another process achieve this. Mox could be thought of as a process to make a wine more uniform.

As Bird (2004) explains, the process normally occurs in multiple treatments over a period of one to three months, during the early stages of fermentation (to help the tannins, colour and anthocyanin develop and to avoid stuck fermentation), to a more prolonged treatment during the maturation period, that can last four to eight months. Typically oxygen is added at a much slower rate in the latter stages of wine-production, in order to allow full absorption.

StaVin (2011) goes onto explain that Mox has only achieved commercial success following the introduction of relatively low-cost, widely available, micro-metering devices, which control the amount of oxygen released into the wine. These devices are essential, if wine makers want to mold the wine to their vision; too much oxygen can lead to oxidation (and a loss of colour, flavour and aroma), while too little can lead to loss of character and wine faults such as a diminution in key aromas and in the development potential of the wine, thus weakening or destroying the potential for the wine to mature in the bottle.

The process results in the polymerisation of tannin into larger molecules, which are perceived on the palate as "softer" or "smoother" Bird (2004), although the wine will often develop further in the bottle.

Current applications of PV and Mox

Skelton (2007) suggests that most vineyard owners should have digital maps of their vineyards already produced, through the use of satellites. If Skelton (2007) is to be believed, PV is practicable for most vineyard owners and can therefore become a commonly used tool in viticulture. This suggests that the relative start-up cost of PV.

Soil monitoring

Soil monitoring in PV allows for monitoring of soil moisture (Tisseyre (2006)). This is measured by passing a small electric current through the soil between two sensors, establishing the resistance of the soil.

This allows the user to establish a detailed picture of how much water could penetrate the soil and be accessible to each vine. Thus the vineyard owner could increase or reduce the amount of water available to the vine, depending on weather and soil permeability, by placing irrigation facilities at strategic points where water is needed, rather than at equal distances, to allow a balanced water distribution. More accurate data on water supply reduces waste and thus cost. This could dramatically save water use globally, if irrigation instillation companies adopt PV.

Seth (2009) suggests that Australian use of PV can be tailored to each individual vine. This would be suited to larger wine estates, since there will be more variables to deal with and therefore more cost effective. Seth (2009) has noted how smaller wine estates have used this system by being involved in a co-operative, suggesting that PV is available between smaller vineyard owners for sharing. The best option would be NDVI, since at harvest time there would have a higher demand for harvest trackers.

Grape Yields

Goode (2005) suggests that PV aids vineyard owners in determining optimum ripeness, thus indicating when to pick rows individually, at the ripest possible point, rather than by field, as Robinson (2006) indicated.

PV has been researched by the Bramily (2006). The research has shown that grape yield "varies 8-10 fold", indicating that efficiency can be gained if the harvest occurs when PV indicates the optimum fruit ripeness.

Another advantage is that prices can be fixed, due to more certainty in predicting the yield, and how much resources are needed. This is only achievable if vineyard owners are responsive to PVs recommendations.

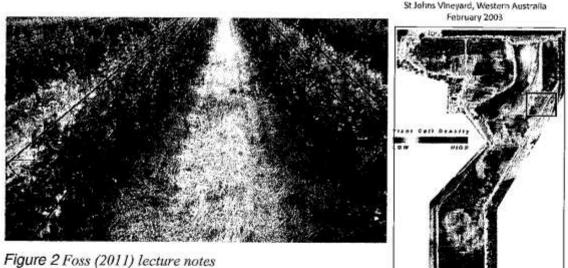


Figure 3 Foss (2011) lecture notes

Quality monitoring

Foss (2011) suggests that other advantages include preventing phylloxera from occurring, since PV gives a broader view of vine vigour. Please see figure 3: The majority of the image of the St John Vineyard is green and yellow, suggesting medium vigour, which means that the crop should be harvested before the vines become highly vigorous and more energy put into leaf rather than fruit production.

Robinson (2006) suggests that PV allows for the vineyard owners to be more precise in the vineyard (block by block rather than field by field), through organising the data received into rows (as shown in figure 2).

At the same time PV can easily identify areas of low vigour or concern. This would be useful to vineyard owners who have large areas of land under vine, by reducing the time, to detect the key signs of phylloxera, at the vine by vine level.

Cellarnotes.net (2009) suggest the quantity of fruit declines each year in phylloxerainfected vines, which means that low vigour areas identified by PV could be used by vineyards owners as an early warning system to identify potential phylloxera vine by vine and quite possibly save the majority of the crop, which is vineyard owner's livelihood. Therefore, while PV is costly in the short-term, it may well yield substantial benefits in the long-term.

Since organic viticulture does not use chemicals in the vineyard Sinclair (2011), which means that the vines are more susceptible to pests, PV could help organic vineyard owners identify pest infections and therefore could be marketed as a yield improver.

Cheaper alterative then traditional methods

Goode (2005) explains that Mox allows the wine maker to emulate oak-ageing in stainless steel tanks. With new oak barrels currently costing over £300 each, even when allowing for bulk discounts, restocking a cellar can prove a pricy exercise. Mox therefore allows the wine maker to save money and can accelerate the oxygenation process of oak-ageing. It is very suitable for small and start-up wineries with low budgets to purchase expensive new equipment and they would benefit from a faster return on their initial investment.

However, Bird (2004) states that the key benefit of Mox is the quality of the results, rather than cost saving, given the expense of the Mox equipment (typically around £600). Phillips (2009) adds that small wineries may still struggle to produce reasonably priced wines using this technique due to the initial expense, although he does not consider the quick returns that will be gained from the wine being drunk younger. In summary, Mox

seems to be more suited to bigger wineries that tend to have greater financial backing and are looking to produce a large quantity of wine with a consistent character. Grahm (2011) argues that Mox's main failing is that it cannot match the flavour uptake of barrel-aging, as it does not allow the equivalent level of oxygenation due to the oak barrels' bigger surface area. In summary, although Mox can provide financial gains, the character of the oak and oxygen interaction imparted in barrel aging are lost.

Softer tannins

Goode (2005) suggests Mox, coupled with oak chips, enables the tannins to integrate well, allowing for normally tannic wines to be appreciated by a wider audience. The Mox is monitored through tasting. However, if the Mox oxygenation is not well managed then Easton (2011) suggests that the fruit flavours can be dismissed from the wine and the acidity can become unbalanced. These problems will only be noticed six months later, leaving little room for error.

Robinson (2006) also mentions that Mox reduces any vegetable aroma. As StaVin (2011) explains the Mox dulls two components in the grape: sulphides (which leads to leafy aromas) and hexenols (which are often attributed to asparagus flavours). Grahm (2011) suggests that this green character is more common in Old World countries, and this could be because Mox has achieved such dominance in the New World and removed any green character New World wines might have had. StaVin (2011) suggests that the tannins form a different compound structure due to the interaction of oak chips and oxygen. This implies that Mox is more effective at masking the green flavours in wine compared to oak-ageing. Otherwise aggressively tannic or the green flavoured wines can therefore be marketed more successfully if subjected to the Mox process, and then drunk at an earlier stage due to the calming of the tannins. This may appeal to other consumers who are not keen on tannic wines.

Future

Population increase

Goode (2005) suggests that PV could become useful in the fight against global warming, by reducing water and energy wastage through better monitoring of the vines. High yields and quality grapes can be obtained through the use of PV (CSIRO (2006)), which will help the ever increasing demand for Bordeaux wines from China, which is expected to rise by 600,000 hectolitres per year over the next 5-8 years (Schmitt (2011)). To put this in perspective, Bordeaux currently produces 5-6 million hectolitres annually. Both premium and bulk producers should use PV to maximise their output and to capitalise on this rising demand. PV can also be used, as Foss (2011) suggests, to identify new areas of possible vine growth, which were previously thought unviable. This will be of increasing importance because the ever-rising human population (Sisay (2011)) will put pressure on agricultural land and non-essential products such as wine could be forced to move.

Unproven science

As Goode (2005) suggests, the scientific proof behind Mox is still not completely sound. This is because Mox is a relatively new discovery and, per Work (2007), the only method currently available to monitor its effects on wine is through regular tasting. Mox is clearly popular with the result that many New World producers such as Lindeman's Winery in Australia (Easton (2009)) or Bonny Doon in California (Grahm (2011)) have adopted it enthusiastically. This was seen in the film, Mondovino, where a well-known oenologist, Michel Rolland, was seen clearly supporting Mox. Later Rolland adamantly denied this and stated Mox was only one method of creating expressive wines in bulk. Gaier (2009) says Mox is widely used in Bordeaux to promote high sales and possibly imitate well-known chateaux-produced wines from the local area. This shows that a well-known science authority in France embraces Mox process. Terroir France (2011) suggests the Mox is accepted but not clearly understood, since tasting is still needed to monitor the process. It is popular around the world and was officially authorised by the EU in 1996 (Robinson (2005)). Yet despite the belief in Mox, there is still no comprehensive scientific explanation for the end result. However, science must be involved since there is

a noticeable chemical change in the anthocyanin and tannic compounds found in the grape (StaVin (2009)).

There are many commentators like Hornsey (2007) who suggest that oxygen changes polyphenolic structure of the wine, making it 'smoother' and 'softer' on the palate. The after effects of Mox are more widely understood than the scientific factors involved. A more rigorous study of Mox is required to really understand the reaction that takes place.

Conclusion and personal commentary

Mox

Mox softens the tannins and can provide financial advantages over aging in oak barrels. However, as Grahm suggests, it is best-suited to larger winery owners due to the cost and its suitability to large steel tanks.

Mox's popularity looks set to grow due to its substantial benefits but more work is needed to fully understand the science behind this technique. In the meantime, regulation needs to be put in place to prevent the very real risk of Mox being misapplied, which could tarnish what is an otherwise very effective technique. Further research on an oxygenation device that would react to the amount of oxygen being absorbed by the wine in a similar way to a thermostat, would also mitigate the risks of human error that the technique is currently prone to.

PV-

PV provides a number of benefits beyond assessing the yield output, including monitoring pest problems and allowing for more efficient irrigation techniques. Like Mox, PV already has already achieved great popularity due to ease with which it can be applied to wine production, even more so in the case of PV since much of the equipment (like mechanical harvesters) is commonplace in the most vineyards. Where PV will excel in the future is maximising output and minimising wastage. However, PV ought to be

endorsed and advertised by either leading wine authorities or by governments if it is going to be applied more widely and these aspects are to be fully exploited.

The role of science and technology in wine production

Appendices

Randall Grahm of Bonny Doon Wine brand, opinion to questions on MOX

1.Do you use Micro Oxygenation?

We do use MOX on some of our wines – larger lot wines in particular and on some highly tannic wines that may benefit from it. Wines that are in some sense overly "green" (a result of incomplete maturation of the seeds) may benefit greatly from MOX, though this generally is not an issue in California. Wines that have to be aged for a length of time in a large stainless steel container also benefit considerably from MOX.

2.If so, what are your reasons for using it?

MOX is a very powerful tool that if used carefully and appropriately can be extremely helpful. If it is used with an incomplete understanding, it can likewise eviscerate a wine or wipe out a fair bit of its distinctiveness. It is a bit counterintuitive, but depending on how it is used, the use of MOX can shorten or lengthen a wine's lifespan, and either enhance or deplete its qi (life-force), or ability to tolerate additional oxygenation. We generally prefer to use MOX at the end of fermentation, while the wine is still on the skins. This seems to be the most benign use of MOX and generally does not threaten the longevity of the wine.

3. How does Micro ox compare to barrel ageing?

It accomplishes some things analogous to barrel ageing, but also doesn't address some of the things that barrel ageing does. While you can get a comparable level of oxygen uptake with MOX compared to barrel ageing (1 ml/l/mo.), MOX does not address the **question of the uptake of flavour components** from the woods and some other aspects of barrel ageing, viz. the surface area provided for the absorption of lees into the wine.

4.Do you think that Micro Oxygenation is becoming more popular with winemakers?

Honestly, I don't know, but as I said, in the New World, under ripe tannins is generally not a big issue. The New World loves the aspect of control in its winemaking and MOX is a powerful technology that allows a great degree of control.

5.Do you see public still wanting a less tannic style wine if so do you see Micro Oxygenation becoming a viable Solution?

Certainly the New World wine drinker favours a less tannic style, though in accuracy, you wouldn't say less tannic, but rather "softer tannins," something that MOX is able to help achieve. But, as I said, its effects are generally way more dramatic in the old world, where winemakers are sometimes faced with wines that would otherwise be utterly green, vegetal, harsh and unpalatable.

6.Do you see Micro Oxygenation as a science or as a technology?

A bit of a science, bur really more of an art. To understand it thoroughly and use it effectively is really an art in the same way that surgery is as much art as science.

7. Do any improvements need to be made around Micro Oxygenation?

I knew Patrick Ducourneau when he was first formulating his ideas about MOX. I've not followed developments in recent years, but something like a fully automated system that gradually adjusts oxygen rates based on an oxygen detection electrode would be very cool.

8. Do you see a future for Micro Oxygenation? If so where?

MOX may well have been sinisterly portrayed in Mondo Vino, but I believe that if it is used intelligently it is a powerful and useful technology and a great tool in a winemaker's arsenal. Certainly greatest application for MOX is in large facilities, especially where wines are being fermented and stored in large vats. MOX can help get a favourable tannin extraction w/ extended macerations as well as be helpful in avoiding reductive issues when wines are held in large tanks with lots of head pressure and lack of oxygen exchange.

April 2012

The presentation and packaging of w	vine
Required content and suggested approach Wine is part of the branded consumer market, where presentation is key, and some consumers are more interested in the look and feel of the bottle than in the contents. Of course, bottles are not the only container used to present wine to the consumer – bag-in-box, tetra pack and cans all have a part to play. As far as labelling and packaging are concerned, they serve many purposes – aesthetic functional and legal necessity to name a few. Some people believe a well designed label will help sell a mediocre wine, whilst an exceptional wine may be overlooked because it fails to stand out visually.	
Answers: 370	Passes: 332 (90%)

This was a very straight forward assignment and the majority of candidates (46%) achieved a merit grade as a result. Those who did less well, often failed to follow instructions carefully enough. In the first section, candidates were asked to list the components of a bottle or other container that can be used to communicate visually with the consumer. This section only accounted for 5% of the marks and therefore required little more than the "list" referred to. Yet a number of candidates wrote at

length about the various components, in most instances at the expense of later sections that carried more weighting, for example the case study of two labels evaluating the concept of good and bad packaging which accounted for 40% of the marks. This more important section was often superficial, simply describing the packaging concerned rather than evaluating the effectiveness of it.

The following script is a good example of one that does exactly what the candidate brief demanded. It was very nicely presented with colour photographs of the products discussed, although the black and white reproduction below does not do this justice.

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Introduction

Over the last decade very strong brands have stood out on the supermarkets shelves thanks to their ground-breaking packaging backed by successful marketing campaigns notably in the United States and Australia where some wines have turned into "institutionalized brands" (Barefoot, Yellow Tail...). The price may remain the first thing a customer looks at, but it seems that presentation and packaging form crucial elements in the decision making process. Indeed, most of wine consumers buy their wines from supermarkets or large liquors stores where the choices are ubiquitous: "With over 650 wines, you really are spoilt at Sainsbury" their website proudly states.

Consequently, making a good product is no longer enough and knowing how to present it has become essential to be able to sell it. The need to differentiate from the neighbours on the shelves has never been so important.

Indeed, much can be communicated visually to consumers through the packaging in order to present the wine, tell consumers a story and eventually their trust:

- The choice of the type of packaging (glass bottles, TetraPak, bag in Boxes or even cans) is intrinsically the first way to communicate and often suggests the range of quality of the product; outer packages also speaks volumes on the quality of wines (9L wooden case associated to premium wines for examples)
- The attributes of the packaging: its colour (often an indication of the colour of wine itself), the shape (often associated to specific regions as the "clavelin" in Jura), their size (half bottles, Magnums often inferring high quality, 3L or 5L Bag in Box), their weight (low carbon foot print bottles will be seen as eco-friendly)
- The type of closure will also be an important choice to communicate visually: screw caps are often associated to easy drinking, youthful wines whereas cork will be associated with more traditional ones.
- The labels on the packaging (front labels and often back labels, neck labels) are used to provide written information to consumers, often display brand names and/or logos that find echoes in consumers' minds. As recently shown, labels can also refer consumers to producers websites through scan codes systems thus multiplying tenfold the information available to consumers ...
- Special treatments of the bottles: screen printing, embossing (like on Cotes du Rhone bottles) will also be considered by the consumers and be associated with quality levels
- Addition of "goodies" on the bottles will also be a way to communicate visually: signs
 of recognition (medals won in competitions on stickers, good notes by Parker),
 emblems of the brand fastened to the bottle (like the small plastic bull tied to this
 assessment and found on a Torres Sangre De Toro bottle), a corkscrew tied on the
 neck at the time of a marketing campaign...

After analysing what type of information can be found on the labels, we will study the effectiveness of labelling through a case study on two French wines.

INFORMATION CONTAINED IN LABELS

The rapid growth in wine consumption, especially in countries where it has not been a tradition has led to the consumers wanting to know more about what they are drinking. Where there is often little or no knowledgeable assistance available **the label is often the only tool that a consumer has for evaluating a wine before purchasing it**. Producers have had no choice but to use labels and the other attributes of the bottle to communicate in order to create a unique identity for their products and strengthen their brands. Over the past few years there have been two moves which have led to more information contained in labels: one led by the authorities(A) and one led by the consumers' needs(B).

C) What must be expressed

The increasing trade has meant that the authorities have sought greater protection for consumers: labelling practices are nowadays strictly regulated by regional, states and local regulations. If not completely harmonized throughout the world, legal information required on the labels are often the same from one country to another. We will especially focus on EU legislation which is probably the most newly revised and successfully completed, as a large proportion of the wines are produced and consumed in EU.

÷,

Origins and quality concerns have first been tackled by labelling laws; for this purpose, EU regulations distinguish two classes of wines:

- Wines with Geographical Indication (GI) divided into two groups: wines with protected designation of origin (PDO) and wines with protected geographical indication (PGI). EU labelling regulations complete states' one so that eventually labels of such wines MUST state: the area of production (whether AOC, DO, DOC, vin de pays, IGT), the category in the country law (Reserva, Grand Cru Classé), the country of origin, the name and address of the producer and bottler, the alcohol content by volume at 20°C, the volume content and "e" mark. A grape variety can be mentioned on the label, only if the wine contains 85% of that variety for a wine produced in EU or 100% for most of non EU countries except for Australia, NZ, Chile and Argentina which benefit from derogations.
- Wines without IG: since the new regulation vintage and grape varieties can be mentioned on the labels.

<u>Health concerns</u> have also greatly influenced the labelling regulations: including **alcohol** levels is mandatory as well as the **pictogram** remembering the interdiction to drink during **pregnancy** but also the fact that the wines **contains sulphites** if the levels are over a certain limit.

Within EU framework each label must also have a lot marker (coded series or batch number) so that consumers can trace the faulty batch in case of complaint.

D) What can be expressed and how

Looking at the mushrooming "label focused" design industry, there seems to be clear "label centric" behaviours from consumers "*The wine industry is among the most packaging-dependent there is. Anywhere from half to more than two-thirds of buying decision are based on the label*"¹ an American wine label designer, sums up. The label aims to influence purchase decisions, build trust, generate brand awareness, create brand equity and encourage repeat purchase. Moreover, what will be pushed forward on labels depends very much of the targeted consumers; hence, producers will be likely to fine-tune the presentation and packaging of their wines. For example, a survey carried out by Wine Intelligence in 2011 showed that UK consumers granted as much importance to the mention of the grape variety on the labels as to promotional offers². They also recently conducted a study on UK and US consumers to assess the general meaning and value placed on certain style of wine labels. Richard Halstead, CEO of Wine Intelligence, explains: "Amid a wide range of choice, consumers are looking for shortcuts "heuristics" to use he behaviourist's phrase_ to get where they want to go".³

These "shortcuts" are cues to buyers and finally make the brand identity:

- "Rational" shortcuts (i.e. Text) :
 - Basically, brand names and "mottos" displayed on front labels directly make consumers enter a familiar universe.
 - An appellation that is a full-fledged brand (as Champagne) or other mentions (as "Cru Bourgeois" or "Reserva") that obviously suggest quality.
 - Miniature essays on the back labels about the origin of wines, the story of the family behind the wines or a brief speech about how it was made and with what it should be drunk are used to
 - o A Grape variety on the front label in an educational perspective
 - Parker notes on the neck label / medals won in competitions enhance the quality perceived
 - Special pictograms as the "bio" or organic certifications/pictograms, suggest "eco-friendly wines"
- "Emotional" shortcuts (i.e. Designs / Symbols):
 - Basically, logos linked to a brand (yellow tail, barefoot...)
 - Topography used (big, small, classic...)
 - Pictures/signs used: pictures of a Chateau (or something that looks like a Chateau) will correspond to "stately wines" in Wine Intelligence classification. A good example of such an emotional shortcut is the Chinese sign carved on

¹ Sarah Nelson, http://saranelsondesign.com/portfolio/wine-label-design/

² Sample of 1000 UK consumers regularly buying wine, http://www.vitisphere.com/breve-58238-Conjoncture-International-UKcepage-et-prix-a-egalite-en-tete-des-criteres-dachat-de-vin.html

³ "How do you judge a book then? Consumer's perception of wine labels". Richard Halstead, Wine intelligence

2008 Lafite Rothschild bottles to celebrate the lucky charm 2008 vintage in China

- Colours used : gold and black colours associated to "prestigious wines" (i.e. the label of Chateau Palmer); white or cream backgrounds associated to "classic wines"
- "Fair Trade wines" or "Green bottles" are increasingly popular targeting "ethically minded" customers as the launch in 2012 of the first paper wine bottle onto UK shelves shows.⁴

The goal is to manage to mix these different elements in a clever way to create a "codedframe" and then the desired effect: an emotional link with customers.

CASE STUDY OF THE EFFECTIVENESS OF LABELING

French wines, revolution VS tradition ...

France is well known to be behind with packaging and presentation of wine because most producers as well as most consumers are very traditionalists. I selected two wines from France which I think are good examples of an effective labelling and one that represents bad labelling.

C) "Arrogant Frog" wines : successful packaging

Commented wine(s): Arrogant Frog range-Paul Mas estates. Vin de Pays d'Oc.

The history behind and the universe

Arrogant is an adjective that according to the latest studies best defines the French people. Frog is the nickname given by American and British people to the French because we eat Frog's legs. The **message** of the "humble winemaker" on the **back label** Jean Claude Mas is clear "I call this wine Arrogant Frog, because in the past, the French have for many years considered non-French wines as inferior to ours. Our myopia has opened the door to New World Wines which are more focused on what consumers like. In the past French winemakers were more focused on what they liked themselves. The result is that consumers have turned to the non-French." The motto "French old world wine with new world attitude" enhances the open-mindedness of the winemaker and immediately makes the product very nice. This entire story is summed up on the back label very efficiently and finds immediately an echo in consumers' minds.



⁴ Jap 10 wine trends of 2012 - part 1 Drink Business 9th January, 2012 by Gabriel Savage

The reasons that make the packaging a success

On average, 9 millions of bottles of Arrogant Frog are produced and distributed in 30 different foreign countries each year. One key factor of this success is that early customers have clearly been targeted: medium class Anglo Saxons consumers (USA, UK and Australia) likely to be tired of French snobbery about wines (prices often too high, lack of simplicity of labels) looking for simple easy drinking wines being unpretentious.

Successful "rational elements" of the packaging

- A strong duo "brand + logo" creating a universe: the name of the brand is funny and embodied by a mascot, a frog wearing a typical French hat the "beret"; moreover "the wines with the frog on it" in consumer's minds. Explanation of the universe on the back label.
- Touch of French classicism: traditional glass and Bordeauxshaped bottle heavier for fuller bodied wines (like SGM blend, Cabernet Sauvignon or even Viognier) lighter for white and rosé wines, backgrounds of the label creamy-white, quite neutral.
- Counterbalanced by "New World" touch: Use of <u>screw caps</u>, Clear <u>Indication of the grape variety</u>.

Successful "emotional elements" of the packaging:

- Innovative use of humour and self-derision (from a French point of view (!))and puns on words : the term arrogant is twisted into "elegant" for prestige cuvées (see Appendix 1) ⁵/ the different ranges are named lily pad or ribet relating to frog's environment / The Shiraz-Viognier blend is artfully named "croak rotie" and the blends are named "Tutti-frutti".
- A simple colour code on the necks: ruby red for Cabernet Merlot/purple red for Syrah / Gold for Viognier / Turquoise for Sauvignon Blanc / black for prestige cuvee...
- Special design of labels for special events that make the wines friendlier for immediate consumption: South Africa Soccer Cup, Tour de France, surfing edition label, rugby label. Such occasional labels create unique/rare products that make them even more appealing.

Conclusion for Wine A

With such a wine the consumer knows that he will deal with a fruity, youthful well-made wine, revealing all the aromas expected from the mentioned grape variety. All in all, this wine is efficient because it is not discriminative between wine novices or wine lovers and will please consumers looking for a non-sophisticated wine.



⁵ See Appendix 1

D) Alsace wines, often incomprehensible wines

Commented wine B: Edelzwicker Réserve particulière Albert SCHOECH-Vin d'Alsace AOC.

The history behind and the universe

This wine can be found on the shelves of the major French supermarket chain "E. Leclerc" from the name of its eponymous creator, Edouard Leclerc, who first launched in 1973 the September wine fair that has now become an autumn institution at French supermarkets. E. Leclerc is known to have excellent wine purchasers who dig out very good value for money wines. Also they dare to sell innovative products as they did with the Bag in Boxes in the 80's and with the screw caped bottles in the 90's. Unfortunately there still are on Leclerc's shelves wines that are very badly packaged even if they are likely to be very good value for money. This is the case, I think, of this Alsace wine. No one can expect something of it just by looking at the label.

The reasons that make the packaging a failure

Very few elements are likely to ring a bell in consumer's mind when looking at this bottle:

- The mention "Vin d'Alsace" is the unique obvious clue. At least the consumer knows where the wine comes from.
- The shape of the bottle "the flute" is typical of Alsatian wines but can be mistook for German wine.
- Also, the image on the label depicting a typical Alsatian village may recall something to someone that has ever travelled to Alsace but honestly I find it a little bit "farfetched".

Obvious <u>elements specific to this bottle</u> contribute to make it quite confusing:

- Too many labels: the top one, the middle one and the main one at the bottom. On the top label the mention "servir frais "meaning "serve it chilled" is written but cut into two parts by the church on the inset which does not make it very readable and in this case, the mention is meaningless for non-French speaking customer; on the middle label, "Reserve Spéciale" is a denomination that is not commonly seen on Alsace wines labels and that has no legal meaning. So it is a bit confusing to dedicate an entire label to something meaningless for novices as well as for educated consumers. On the main label the picture takes a lot of space, which is not necessarily very meaningful.
- "Edelzwicker" is a term that indicates a wine made of a blend of Alsatian grape varieties (proportions can change) including entry level grapes as Sylvaner, Chasselas, Pinot Blanc but also noble grapes like Riesling, Pinot Gris and Gewürztraminer for the best...A connoisseur will probably know that this is a high yielding, simple and refreshing wine. A novice can't tell this.



Furthermore, the quality can be from very low to very good depending on the producer. It can be all the more confusing that grape varieties are often displayed on Alsace bottles which is not the case here. So this notion introduces a bit more incomprehension.

- The green background of the label does not stand out against the green of the bottle. The colour of the drawing makes the wine look old and worse, old-fashioned.
- There is **no clear brand name** that could create an affective link with the consumer and forget the dreadful packaging.

Discriminating elements generally applicable to all Alsace wines (entry level- not the high end):

- Like many Alsatian wines, it is impossible to guess whether the wine will be dry / off dry / sweet as there is plenty of styles in this region.
- The bottle shape needs "radical rethinking". Some people claim that the current tall bottle shape (known as 'hock') is a distinctive feature of Alsace wines. "But to most consumers it spells 'Germany', and for the average consumer, Germany is bad"⁶

Conclusion for wine B

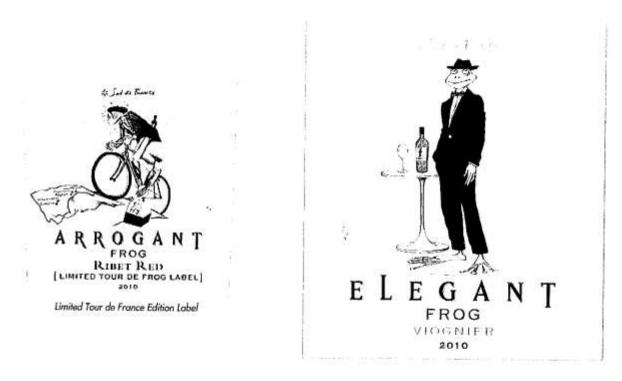
This wine may be very good but the packaging is not reassuring for consumers. It may work with very traditional local buyers but certainly not with the new French as well as non-French millennium generation. "Some brave action is needed to make Alsace wines relevant to the next generation of wine drinkers. There could be a place for elegantly packaged wines (with no other names on the label other than brand, region and variety), in a Burgundy-shaped bottle, telling the story of Alsace to a new market, and priced just under £10 a bottle"

Conclusion

Wine packaging is probably circumscribed by the weight of traditions, especially in old world producing countries. It seems much easier to take the liberty to play on Spirits or Champagne's image, which are products associated to very special occasions, deserving original packaging and presentation.

Yet wines labels are the mediums which carry brands messages and like any form of communication they need to evolve to remain "fresh" and relevant to the market place. What is sure is that good packaging will sell a bad wine while bad packaging will leave a great wine on the shelf. It is almost as complex, perhaps, as making the wine itself: nowadays good packaging is just as important as wine quality...if not more so!

Annexe 1



Arrogant wines turned to elegant wines ...



The complete range: packaging in hormony with wines inside...

Closed Book Case Study

In comparison to other closed book theory papers, the pass rate for the case study in Unit 1 is high and reflects the fact that candidates go into the examination having already carried out the research required to answer the question. This means when they get to the examination hall and open the paper, they simply need to collect their thoughts and structure their response to address the sub-sections of the question on the examination paper. This is very similar to what is required for the open book coursework assignments, but with the added constraint of working in a timed environment and without access to research sources.

Those who fail generally do so because they do not address the question as set or are too brief in their response.

November 2011

The importance of generic promotional bodies for the wine industry

Candidate Case Study Brief:

Many wine producing countries have generic promotional bodies. One example is the Deutsches Weininstitut. Part of their "who we are" statement is as follows:

"The Deutsches Weininstitut (DWI, or German Wine Institute) is the German wine industry's marketing organization responsible for the generic promotion of the quality and sales of German wine domestically and abroad. At this time, some 40 men and women, under the leadership of the managing director, work in the interest of German wine at the wine institute's headquarters on Gutenbergplatz in Mainz. In addition, there are more than a dozen "Information Bureaus for German Wine" in the most important export markets, from London to New York to Tokyo."

Another example is the Wine Institute of California, which describes its brief as follows:

"The Wine Institute of California uses funding from the Department of Agriculture in Washington DC, under an agricultural export support programme, to raise the profile and promote the sales of California wine outside the USA. It maintains offices in the major markets of: the UK; Canada; Japan; and mainland Europe, and part-time or PR support in emerging markets such as the Far East."

Where a national generic body exists, the size of its budget and the source of that money will affect how it goes about its work. As a result, generic bodies have adopted various tactics in their efforts to promote their wines.

There has always been much debate in the wine industry about the importance, or otherwise, of generic promotional bodies. In some cases (e.g. Wine Australia), the national generic promotional body has been thought to have played a significant role in the development of key markets. In other cases (e.g. Italy), there has either been no national generic promotional body or any initiatives that have been taken have been perceived to be largely ineffective.

Answers: 258

Passes: 224 (87%)

Examination question (all sections compulsory)

- a) Give an overview of the sort of mission statements and key objectives adopted by the various national generic promotional bodies. Describe the activities undertaken by the generic bodies in pursuit of their objectives. (40% weighting)
- b) Where does the money come from to finance generic bodies? Discuss the tensions that this can create. (30% weighting)
- c) How effective do you think national generic promotional bodies are in developing the markets for their country's wines? Do they represent value for money? Suggest ways in which generic bodies might improve their performance. (30% weighting)

The examiner commented that candidates performed very well in the first part of the question. Those who had digested the briefing document well, realised the importance of looking at the websites of various generic bodies and simply needed to duplicate what they had read. However, responses in section b) were much more patchy and the speculative nature of section c) was far more challenging for a number of candidates. As a result, marks for this case study varied enormously from a high of 91% to a low of 10%.

The following candidate answered all sections well, with good use of statistics in sections b) and c). Their essay is well written with very good use of examples throughout. It was not the highest scoring script, but nevertheless was one of the 82 candidates who achieved a Distinction grade.

2)	Mission Statements & Ky Objectives of Auteric Promotional Bodies.
	Most generic bodies camp our a simular set of activities but what is
18. 1	shiking when you compare their mission sharemonus of dejectives is the
	degree of changing approach which can range from a control focus to
2	query & sales. Common themes include tourism, quality & education
	but many have changed over the years to adapt to business demands /
1	changing marker place or influenced by their major hunding sources.
	Germony for example highlights quality & sales within its mission statement
	but boking historianto this they really excer in the areas of taurism,
2	whiling closely with Chermony knirks m boards to promote the country orevall.
	California too names to raise the profile & sales ackside the USA, despite
	thus slatements few consumers are avore or are connected to what
-	California wine represents as their approach has largely been focussed
	on grape variety & big brand & presence like Callod Mondavi. They again.
	are grear in tourism being second only to Disney in the us with
	14.8 million visitors a year.
	inter visitors a great ,

Australia has changed its strategy from having been highly successful 10 years ago promoting grape vaneties at being subject price productions price promotions to now focussing on premium wines & regions. The IVDP in Portugal focusses hearing on control of production, labelling taxes.

price by avoiding promotions below US\$12. At the core of their strategy is regionality - creating a sense of place, power personality "brand Chile" & Individuality through the sheer diversity of the region creating wright selling points such as Carmenere, old vines Carignon & cool climate syrah/Pince Noir,

Achintres to support these objectives:

Education Fastures having to educate portracle, press & consumers about the country, regions & grape knickies. Nost is fairly acceleratic with fact shoots it websites but countries like Australia have excelled by Brighting university students, & using online -modules learning modules.

Bordeaux has its wine school training trade & courses adapted for

They all feature heating in laurism ranging from winney recommendations & routes (eg. Tapas & sherry rowe in Jerez) to countries that have really got into it to will with gastronomy (Riga & many tapas events for consumers to experience the wines with food as designed & bring culture in) was sport such as the riggly world cup & NZ wines

or as a country with named cultural cities getting involved eg.

Naini & the Rheinhessen, @ Porto, age Tann, Bordeaux.

Some Take Hus Further into incentive trips & merchant avards to

take key buyens & press at to the regions to learn & experience the Winest country.

All suppor events from trade events such as Wines from spain or

France Under one rook to smaller events, trade & consumer tashings

creating on apportunity to hand sell & talk about wine values.

Bordonux spends a huge amount of money on advertising, of with

compaigns such as "Everypay bordeaux" in the UK to promore

the value message, any from it with food as the market is so

polarised between En Primeur 1 cheap Bordeaux.

Regions like spain have created their ann anards - New Ware.
spanish Amards to recognise quality & Riggs has benefitted from
this with global reg recognition (top 5 recognised & purchased
regions in the UN, USA & Austrana according to a Wine Intelligence
report in the LIWF 2011 dupite having historically been
Known for bulk production & shu only sits as the #4 producing
region in Spain behind Castilla La Mancha, Catalonia d'Extremadura.
Nany of the larger generics are operating like corporations & as such
conscience of sustainability of green objectives. Sustainability is core
b) Funding sources
The funding sources are largely split between government funding
from equivalences of DEPRA + wine levys. 39% of hinding for
Wine Australia is from lexy's paid from sales.
Bardoaux has be large budger of €27.8m globally, of which €21.8m
is spent on markening, €2.5m spent in the UK. Compare this to
Burgundy or just €10m or NZ or \$5m d it really charfes their funding.
Historically large companies have paved the way for generics to create
anareness for the brand & in some cases building an identity for the
Caining. Some would argue the brand chule reallystarted with Earchay
Tiro, & Australia with the likes of Penfolds. These investments have
helped to gain rapid consumer anateness bur with the majority
the sites going through the off made this has lead to deep price
- Acius & countries, generics specifically a are working hard to protect
price, build quality & differentiate themselves.

where governments play a huge role in the hindury, control is an obvious fashine with mussion statements focussed on controlling production, levels, labelling regulations, defining the practices allowed a baundanes within the appellations (denominations of origen. In the past this has been ontities to move analy from bulk votes a promote a more premum approach to wine making. But as the economy is in recession, unemployment is high a curo conversions are threatened in Europe, government hinding is being out. This is highly noticeable across Spaind Portugal with event hinding subsidies being out a the price of grape spirit rising from €1.80to €2.00, not only does generic hinding get out but such reductions (price increases well can no longer be absorbed by produced or suppliers at will eventually be seen by the consumer.

The targer gent where the government is very controlling to or Euroscianic such as Italy it is thought that there is little chance of alignment arcross the regions of bodies of so a generic body has never really gor off the grained to prancte the country, the danger being that such control stifles creativity. But then producers such as Antineri, the regions of styles such as presecce at grape vaneties such as Pinct Cirigio are all independently building brand anarchess for the country of its wines.

where there has been major investors within a generic body this too creates conflict as they may prefer to promote their an brands rather than the building the county or region. One such example has been said their Conzales Byass has a controlling state in the cherry histitute but it can be also be argued that through their investment i profile, smaller producers such as Hidolgo can build the niche position creating a unique selling point whill the both are heavily promoting Sherry it embeding a culture with tapas.

c) Effectiveness of generic promotional bodies The most effective generic promotional bodies are those that can goordunate themselves & create a clear strategy & focus for the cauntry & regions. This could be snything from Bordesie with huge investments to spain that has really embraced the country's guiltancing, tainism & culture Along with Australia, New 23 Zoaland & Chilo they have really created an identity & coordinated / pater partmined across regions & winneres. This is evident in ferrer but clearer websites that are carefully zargeted to meet their objectives & comunicate on different levels for press, trade & constant consumers Having said thus in a recent wine intelligence report (LINF 2011), in terms of swareness the countries or regions fair to resonate with the consumor. In terms of their choices they pick UK 1. Grape Var 2 Price 3 Recommendation by a friend 4 Country 59%. - S Accomo Brand 6. Region SIY. 7. Recommencion by a chop. when asked what California / Australia, means to them the majority of responses where including' or perhaps red wine /good wine. n terms of what consumers buy, scross the UK, USA, I Australia Bordeaux & Burgundy Featured but suprisingly Right A Narlboraugh hept popping up. In terms of consumption the UK volue share " VOLY. Value Y. morker share Volume 1 value shores are: 1. Australia 21.833 21.8 USA 14.4 14.3 France 12.4 14

NZ Countries such as , I taly & Spain have grown ballo share at 8%, 4%. d 4%. so those smaller recounties & budgets are working well respectively differentiare themselves In addition to the coordination the best generics appear to be business strategy papers & annual reports. Within the trade this WITH a clear newsage & intention of hopefully domyshilles communicates of the complex massaging for the consumer. For example to be quite spread brand Germony as such Docard au the hutchical image LACK Toror d Bue NUN \$ botween chedo vality wines in flured bottles & complicated names improvements it really is key to get balaning Key in nant ggionally - create anareness of the region, help people to expertence I understand the regia, not just the nine but tell the w history, and culture & astronom 2. Personality - This an done by making personal through when a creating Heroes like brand New Zealand have done or Brand Chile B. Individually - Regions/producers much have a unisurique selling Current trends to promote grape varieties has engaged the consumer initially but then lead to a sense of "me 100' A Souvignon Blanc fs cauld be the same in any region

March 2012

Chablis versus Chardonnay

Wine style in the old world is to a considerable extent defined by quality wine regulations, e.g. AC, DOCG etc. In general, the new world has a much less rigid approach to appellation. New world wine producers are much freer to innovate and react to market trends. It could be said that they rely more heavily on strong brands, varietal familiarity and product innovation than on regional identity, heritage or classification systems. So how important are classification systems and wine regulation to the consumer?

The consumer's purchasing choice is driven by many factors, - label design, price, grape variety, country of origin and so on. Even amongst consumers for whom appellation is an important factor, the concept is often misunderstood. Many wine drinkers associate systems

such as Appellation Contrôlée or DOC with a guarantee of absolute quality, and by default assume that a wine that appears to have no classification beyond stating the brand name, grape variety and possibly region of production must in some way be "inferior".

In recent years there has been some evidence of a convergence of old and new world approaches to regulations, with signs of increasing flexibility in the old world and a trend towards the defining of regional identity in certain new world regions.

Answers: 225

Passes: 152 (68%)

Examination question (all sections compulsory)

- a. Why was Europe's quality wine system created, and what aspects of wine regulation does it regulate? (25% weighting)
- b. What are the strengths and weaknesses of the quality wine system from the point of view of the producer and consumer? (25% weighting)
- c. Why has the new world had success with the varietal approach? (25% weighting)
- d. What can tomorrow's wine industry learn from these contrasting new and old world approaches, and use going forward? (25% weighting)

This was a disappointing pass rate, for an assessment that usually generates better results. Since the subject matter is published ahead of the examination, candidates have time to prepare in advance by researching the topic and digesting the information they have gathered. This therefore means they only have to re-organise this information on the page to address the various sections of the question. A short essay plan always helps in this respect, but far too many candidates seem reluctant to spend any time on this. This often means they end up losing sight of the specific points they should be addressing and they head off in other directions, and do not answer the question in the process. Another common reason for failure is because many candidates simply do not write enough to answer the questions in sufficient detail. In the time available, examiners are looking for around five to six sides of text in average size handwriting. This should be easily achieved, PROVIDED the candidate has prepared well ahead of the exam, doing the necessary research and background reading. However, in addition to these general weaknesses, there was another very noticeable reason why some candidates failed this paper. Many candidates mistakenly assumed this was to be an essay on Chablis and Chardonnay rather than regulation versus "free reign" as explained in the content of the brief and very specifically in the examination questions that make no reference at all to either Chablis or Chardonnay.

Candidates who limited their response only to Chablis and Chardonnay, very often failed as they inevitably addressed very few of the points examiners were looking for. The best of them managed to achieve a basic pass grade provided Chablis and Chardonnay were only used to illustrate the points they made rather than defining the scope of what they covered.

Another common problem was the misconception that "wine systems" were introduced to ensure quality, despite a very strong hint to the contrary in the case study brief.

The following two scripts provide a good contrast between a candidate who has achieved a merit grade and one doing rather better and gaining a distinction.

The first uses Chablis as an example to answer section a) which does work in the way it is presented. There is also reference to discussion with individuals which formed part of this candidate's research into the topic. This is always a good approach, as it shows the candidate is not solely reliant what they have read. Stylistically, it is rather stilted and there is too much focus on the US rather than taking a broader approach in terms of new world countries. This script was marked as a merit grade.

this poper. I'll discuss Europe's quality war sys remptes And where system Som 6.10. VIRE BRING in une sa 01 TIM. ald 15. Vast accon amono nchal to ternings created to promote thrownow recion chang many ions to Dailis or Acis ome for minical

Europesquality wine system regulates a number of aspects regardine wine production. boundaries are strictly controlled. odkins at separaphical or example, in order to produce a Grand Gru wine from hen all of your fruit must come from that designated Dinemakers are not allowed to blend in gropes tion orvine yards. The geographical boundaries and cher in reliens which The Grand CN Viner Gras Swfacing nill overlooking (DW calcerasdayand lossifised as Kimmeriosan This soil is deemed superior and Chelk contribute to the which connot be found abeculere. The steel minural quality that has been returned to us Pelle ¢.,. Joncis Labinson - Outord Companion Varietals are another a spect which is strictly controlled wine is to be labelled "Chablis" it must be produced yo/h nordomay. Bending is not permitted Murvarietal grown like Pinot Bane & Saurissian Mane, But if a winemaker have to be declassified chee to use other parietals the wine would to Burgoene A([Jancis K. binson - Oxford Concenton levels are also controlled. Grand Cruchdolis vines must 110 alcohol, followed by 12,575 for Prevnier Cru, 1270 for Credity have (Adorson Outed Condenia and 7.5 Br Retite Chebits. Itods are monitored. For white gropes, like chablis, the obinson - Oxford Conoching Mineyard practices like inrightion, tiellising systems, kine Jensity and puning are also controlled, along with sol makine Fechniques, ic. Chaptelization, less ogeine, etc. ompanion

In speaking with several of my wine byers from some of LA's lager relaiters, like Wine House and Wally's, they feel that the EU's quality wine system is confusing and the average consumer, 90% of their clientely, does not understand it. Unless you are an avid collector, you won't specifically be looking for a wine from "Le Clos"

They del that for customers aged SD and older, they will view Chablis as "Carlos houss" jug sine. They have no idea that Chablis is a negion in France and that the varietal is Chardonay American consimers was to are the wright on the label. They

it. My byers said that while the "Chablis" style is becoming.

prove popular-people are noving away from high alcohol, over a locil wines. the price is too visited

Last week I had the pleasure of working with Lorenza Sebastian, of castellod: Ama and asked her about the quality wine system. She freels it is important and thet terror does not for, but the where dischas a huge influence. She never put "Reserve" on her Chianti Classic. before, even though it met all of the ageing requirements, because she didn't Rel the term meant anything. She said the Chienti producers have come up with tighter controls, so she will put feature on the back laber of the chienti

I read an article from the Son Francisco Chronicle and the Whethorek, and both pieces had similar opinions. While ED rewelctions define areas of production, they don't necessary subrantice quality. Some producers are shielded under the "AC' laws and white the "ferrar" may be deerned superior, the winemaker may take short cuts in the production. There is not a governing flor ce large enough to guerantee that every bothe approducer releases is of "AC' guelity: When consumers stopped a retail outlet, there are hundreds of unges and producers side by side. If a first time Thoblis propose a bought a wine from a winemaker lacking rates ity, they could be hunded off to all Choklis. Since there are defined "terrise" characteristics from the atteraset production areas, consomers should be constantable in relating a wine and knowing what the basic Flower profile will be. The old world has really been hold back in terms of sales plure to atter states are defined and hold back in terms of sales plure to the old world has really been hold back in terms of sales plure to and world has really been hold back in terms of sales plure to and world wine gotes rose from 370 of predil predict to its to 30%. them 1990 to 2008.

The new world has had great success with the varietal

Taking a look at the U.S. market from the Fredrickson Comberg Report from March 2011 focusing on 12 months ending is December 2010, this is what I found.

The Wine Browp and Constellation wines. Let's take a closer look at all three.

Gallo was up leto in 2010 shipping leb. 5 paillion cases. They have 27.570 of the market share in the U.S. Part of this increase was due to diversifying their portfolio. They how have wars being produced in every wine producing country.

BateRoot, one of their key Chardon Pay brands, has been very successful. The packaging is bright and color ful, with Chardonny cleanly visible on the label. They just use California as an oppellation, not a specific AVA. This brand experienced an increase in soles in 2010.

The Wine Concerp was up 1910 (7.7 million cesses) in 2010. They have had themendows success with their Cupatie label. Again, the packaging is bright, colorful and very Permise with the varietal clearly sided at the label.

Constellation was flat at 19 million cases, but they had soarss with brands like fack they loodbridge Monday: & Clos duties French wines did not have very well in the U.S. providet in 2010. While French table whore were up 170 is soles, their value dropped by 15%. French wine imports totated 7.5 million uses Sut this is the lowest since 1995. The Louis Jadot brand had the most guccess, with a 272 reles increase and 110,000 cases shipped. Chardonney sales are still #1 in the grocery outletat

2270 - Chardonnay, import and domestic combined, grewby, 612,000 causes (470) - Cupedike had the most growth at 74,000 cases

The top 10 brends in the California market are Suffer Home, Bareloot, Yellow Tail, Mondavi Woodbridge, Franceis, Bernner, Ch. St Michelle, Collo and kendell Sockson. All of these brands have been in the nurket for many years, with consistent packaging and clear varietal positioning. Not hop member the marketing dollars behind the winter. Consumers gravitate traverds lines like these because they are fumiliar and they wave what they are bying.

The AVA system is the U.S. is becoming more familiar to the average consumer, although the terms Alope & Sonoma valley still dominate the conversation, but the focus we salways on varietal.

I think tomorrows wine industry can be a lot from some of the transmant that the "Vin France" The new "Vin France" labelling term is opening doors and increasing sales for producers using it. They can now varietally label that where's, includes using it. They can now varietally label that where's, includes

like boissel's French Rebbit line out of the Lorgue doc is a great example. Not only one they isoppray on the "eco-Briendly e tetranck ackacing. But the varieds or the packaging is hresh anoth hom france offering onend butierth, and 11.46 6 own. They unders and ky ard ontributes to the wine. Californic producers reed their terrior. There are many winemake and notable differences, but the consumer is ware yet. In Wines & Vines, Clark Smith mentioned the laste Profile" that is a work in progress. Theyard define taste benchmorks" and "production convertations" Abrall AVA'S in C quality wine regulations in the old world are very thional and are meant ect. dixersity, history equere put in place because they isond certo have exceptional LADIC rowing world e matched elsen 10 1. that terroir comes intoplay, simportant to adhere to the controls, or there needs to all when makers n eed a bigger and befor a premine body or like the old adage is one bodicy will ruin it her everyone. The New Werld, which has had incredible success with Veneld Ebeling, needs to work on truly defining their AVA's sense of place, and consistency for the aiving Homa consumer. C., . .

61

In contrast, the following candidate achieved a higher mark, putting it in the higher grade banding of distinction. It is well written, all the points made are relevant and valid with good use of examples from many parts of the world.

Regulation and concept of regimal inn Wald Inten ho me Systems 0 he untile approach New avieta NO geopine . nia Inv muel fen 0 a po Le Wo evenu ke ween quality wie regulation System can Sust origins ball 10 me none in ho 0 Wine poday unl he not Jurnures 6 ne 0 ame neasure against Non null an wa mas grapes Cheaper ornishin ant SA Ms were stelly Sult monin he gins whie . Bordeaux Shy MI WNS ni 0 grape IMA var he area such neru 20 renon au 14 NIC in MA he doubl enniques overting ermigu is Regin no tor in cores. mh Lenniques an RO MU O eme agon vennir. pre ens and arene mA awar 0 e a aneo me shipes 0 nn TCA 0 Varis when it was no ens were in

reterinined the Champage regin would be the only region to produce Champagne Sparthing whe in France. O('s rul The regulation in Frime are ca adopted throughout can be seen to la Europen Nations such as Portugal out rain Italy with its with DOC) and NOL(G) formany with its QKA and Predilation. were Lepulations and regula nere of a crimbing infinded to distinguish quality wines part of its table wire, with it its from iter shows when systems can the Strengths of these quality he seen in the history and hentage (and possible sense of attaining to quality in the upes of Frame such as owner) quality AOCS of Brideaux and its Medoc Subregins Barolo and Ing standing thistory. Chindi in Haly, no have a he New Word is from For 15 Brands 10 irproping then to it can be argued that have produced made European quality whe systems Regins and appellations into Brands in to the consumer and anociated nghit, early reamisable with a district style of whe: Rioja mi Jean and Unablis in France, for example - Arguably world Brand is Mat of Champage ultimate tot its large Grand Marques Such Moet un m chandon, Vere Chyput etc. Mampagne The the reputation of prestike 11 anul wit carry would for the work of keen pray had I was Ne Regulations and appellation , in motel home out of monothing the name 'Champagu' is keing only to this require of Frame. In So in addition to creating a sense of Kentage and

Regins is Brands in the yes of the consumer, Regulations The quality wire system has protected the interests of its producers' individuality and milding a sense of guality and hentage in the eyes of he consumer . Control A product of Another Strength of the quality whe system is The notin Terror (me aspend environment of a viticultural mation) promoted as being responsible quintity of a wice from a specific Region, unreplicable anywhere serve in the world. This has been regularly dismined by New World produce as a product of both mylicism and markeling by their old pa cunfignants to protect new industry (it is wedenterthethe understandable mit Att were Work producers would enger to dismis this, praterting their own industry, originally based on European Wive Styles without the Afterham to geographical location The Quality wine system can show many weakness however: limits experimentation and unovitan with its smat antros, but were Fyrically "But machin of The me round It doesn't guarantee the quality of a wine, but Specification and prediscor down less quality bear minimum of he monum doing the legislation. be deemed as manerible, effist to the consumer, the labels (ading variety and any for the consumer Menn't hup a tonjume to make an "unsaformed choice, it implies on Specidit

knowledge of region and even specific producer for The congumer to make a compilent choice. The quality wie system may offen he opted out of by produces section to make quality wire and de lions, los wines, The Super Tuscanst using uppermit avone unetes is an immediate example other producers such as dropping out of Juperine " The cations of Joave, Fir example, to hitle an quality for the Scrub cyp is a more to quarantee or conjumer, but would be consumer unker fais this from the laker. mile Superine has been drypped 15-The New World has had imminge such succes with the concept of Varitor labelling and introluing branded products back into the Ule market. A Survey by the IWSP in 2001 showed piet for the period 1999 - 2008 New Wirth Wine imports to the UK incremed by 141% compored to a devience of 9 % for the Old World (Though It is worth noting this is for volume rather than value price) New Work labelling systems where the grape is prominent on the laber and not neccessivily a specife. cegim, makes the modult nine accentible to the pro onsumer. The Concumer can anociate with the style The varietar rather than a Regim. The New Wind amounts for over 60% of the ilk off frade (as Stated by AL Nielse in 2008) that and the British Wine and Spirits Trade Association Survey a Store Commissioned a Wine Intelligence Survey in 2007. [reported by Janas Robinsm on her Purple Pages) Mut fruit Consumus time Varietar at "top of mind when purchasing whe: Variated deady presented on a New World lakel

motos mis ensir for the consume. The variety the New World is for len penrentie appronon. man the old Wind system of wine Control allows unrestricted plantings region allowing big Brands torm he much bigger quittes The volumen wines in Write: Brands being able to Source anine Inth Farlern Atus milia comple he whole of . wed for bull modulin, reducing with for marketing and pomotion (provetine alloring ability Frommiss of Sule) and the Sants due to to make a consistent product year on Sourcing from Multiple regins, repur Man a smaller spenfi regin affected by untrupe venation - This has a complete The branded wies of the New Works Indead sufir choice in the upper of the Consumer-The the like are mostily New 20 Grands imported in ho top World (muy Carting) P Charles and agio are from hela for over 30% Vorla) and type for 20 Brinds august AC Niebon m important The of trade Imin the Drutis Reporting a huge Swin complexing Just Ne 2008 trale sime Economic The off on trade to Der 2011 article discontum. Vinetal approach atto alto allows the New World the better hun he old to react to consider demand examples can be fring in the increase of whis Blosson fill and other from the USA, largely due to while Zinfield produces kein responsible for 2/3rds of UK Roje, Whe Import, a Type of whe Mut is incrough

increasingly forhimable. The Aust Tommormus Wine Industry can bear a huge animit from these contracting new and old world approaches and use there going forward, possibly to answe The problem of while production superior and overproduction bull inserpenson whos The New Workd Old World can alreally be seen to be adapting Wew World approaches to vanishing Top Kurgundy Producers, for example, are including Pint Nor" or 'Chardonnoing' on their Expirit Jakabes Jakels. Compo Viejo for example, The Uli's number me importer of Uk wie, has just amount to The Drives Business publicition mut it intends to drop "Grianza" from its Uk Jakels and replace with the type tempmudlo after their research found 70%. brine concerners inside variation the most important consideration. (althrough 'Reserve' and Gran Reserve in remain) a sign that the ownere avore of the accumbility of the New World approach to wine. Old Wird Quality Wine Systems can be seen to he relaxing the rigid combaints, the Cava induiting For example now allows the use of Churdomay and, hint Nor in its spartuling arries, prevently illegal. Other regions of twope such as the Languadoc Sciulay are increasing plantings of International Trape variates to respond to consume demand. The New World approved can denty he mad by to make this wines also shopefully, legistation to Change Consumer and Old World any be seen to add he algebring he Mis no Scientific uppraches of the wee work thus increasing the quality of many inexpensive whos (although

A can be argued Now this increase in quality is consum etiminatay individuality in whe, once attributer to touroit touris and producing a homogenised tooo Colour Une New Word GA he teen auphin 601 he a degree tighter whole over Regul Nin 10 was chu TV viticaltine while verproduction. New Toaland scannu to world's denaud responding to the Jawnmon toor Stave RLAME now unrentrused Con increased. has plantings in unsupple ones for vitralfine Same has putweighed demand leading to a dryp in Inies and a Tornisher Reputation as Bulk New Lealand Shellas, the Supermandel and oppears m 12 Sawyman pagnee of regulation could be med 10 inntry. molect the quility image of woduces can die leen from Reginality as ine trans torriv ma inter (1) mates increased in movin 10 AL contain wries Range mad m mol Mominghen Benenula in ma and Gimblett Graver in example. New Lealord Nava out in Colomia, 400 valley in Angertin or dimates none surface for menuns whe micrains unprhase ipue md of n 10 who industry reducing bulk modulton, enting of he supplicing suglar and increasing TILLA

June 2012

Buying wine at auction

Auctions have been used for the sale of wine for many years and are popular with investors and collectors. Wines featured in James Christie's first auction on 5 December 1766 and the first specialist wine auction department was created by Michael Broadbent MW in 1966.

Dedicated wine auctions can be found in a number of wine producing regions and around the world in places where there is a demand for fine and rare wines. Reuters report that in 2010 the main auction houses sold more than \$350 million worth of wine worldwide, with some iconic wines selling for astronomical prices. Asia has seen the biggest growth in wine auction turnover and Hong Kong has now overtaken the UK and the US as the largest auction market by value, with \$173 million worth of wine going under the hammer in 2010. One auction house alone sold \$52 million worth of wine in Hong Kong in 2010, up from just \$14.3 million in 2009.

Auctions can be an effective marketplace for buyers and sellers and the benefits can be significant but trading wines through auction is not without risk as demonstrated by recent high-profile events. As methods of fraud become more sophisticated or harder to detect, producers and auctioneers are under increasing pressure to protect their interests. One of the driving forces here is the ludicrously high prices some of these wines can fetch.

Of course, auctions are not the only secondary market for wine. For example, the fine wine broking sector has grown rapidly in recent years and has it own advantages and disadvantages.

Answers: 242

Passes: 179 (74%)

Examination question (all sections compulsory)

- a. Give an overview of wine auctions describing how they work, identifying the main players and the types of wine sold in this way. (30% weighting)
- b. Discuss the advantages and disadvantages for buying and selling wine at auction. (40% weighting)
- c. Discuss how fine wine fraud may be perpetrated and evaluate the methods available to minimise this problem. (30% weighting)

Responses here were good on the whole with a fairly equal split between candidates achieving pass and merit grades. Marks were generally lost in section b) where responses were brief and rather too simplistic for a section worth 40% of the marks. In the worst cases, candidates struggled to come up with any examples of disadvantages beyond the risk of fraud, which had in any event already been given to them in the candidate brief.

The following two scripts are both good examples of high scoring ones. The first, is given as a good example of what to do when you find yourself running out of time. The final section of this essay is much shorter and superficial than previous sections,

but the candidate has taken the right approach in getting down as many facts as possible, leaving gaps that can be filled in with more detail if time permits.

auctions is alive Kecking, with orld the and 0 in al a 201 The auctions importan une 118 un worldurg 478 2010, uch where, Since 04 lon duby as on uner 2008. SODA row mon No away 3 lo rew a 2010 auctions nork How consignor example has case tak sel0 conta house 6 00 an 110 aan at er. mou an mai D CY belter n hou 80 obverance merented. ഹ 05 yull thi and 40 estimate extremely Vag 0 SON a May u Pρ P omarco R

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IVB whit Chonese Jani un ncrease pella namer uich tamper pro corks Special Eatures dats Some first growth put rolograms labels and on Ponsoz engraved his signature has and unnu bottles 14 de a Russell yes eg. ty runs site aware proc non 200 Mare mar on hause auction

The second script includes some very good detail in all sections. It is perhaps a little "Hong Kong" specific and whilst there is nothing wrong with writing about the market you know, it is also important to remember to add a global perspective as well.

This essay is going to dissess whene what they are, has they work and 1210 11 Kanses, the main a sction who might be type of people abation and which 50% cre type. This the axford companion, Jancis Robinson describes Dine auctions as, "The sale of wine by lats by asctioneer on behalf of the seller." Dine asctors existence since the middle ages. At been in was no cash a outable so young wines time there to sea ports whe Fransporteal barrels in then anotioned off. With the invartia they were At the wine was of the battle. This along with improved transportatio in that these types of machins longer happened auction did still accor in auction houses but some ande hossehold goods' It was in 1966 Michael Romen pent set op Christies wine that to wine only en auction dedicate had Sothebys followed just a couple of years later Dine aschions work when collectors, predoc decide they woold like to sell their wine. The will erabate the wine and give house. estimate of its value. They will then hald where this wine will be sold. The "lats. The tatha lats con consist of single bottle, a case, onimed save or a verticlel

horizontal collection. They will produce a booklet before the asches which will say what lats are available, the condition of the usine and whether it is in its original rase. They will also give estimate of what the wine will go for There might a minimum bid listed. When the wine aschie accors people may place hids on line, in the the phane. A bayers fee is added to final selling price which goes to the action 10023-8 up to 200 This fee varies in Hongkong can be bat The mijerity op auchons take place New York and Hang Kong. The major avelian Loose have representation in all cities. 2011's most soccessful wine auction hause was Acker, mercill and conduit. According to Dire Times Hong Kong, in a interview with the CEO Kopan, thay sold over \$101 million as dollars work of sine. 60% of this recense came from Hong Kong. Sothebys, Christies and Zachys are also leading applier bosse who have also reported hope sales in the last Syers - mainly doe to the nortochin of tan in HK. pide sales of ine at a oction was \$165 woodd million (25) in 2010, in 2011, it was \$230 million (25)-This is according to wine spectator on Jan 17th When that is ald or care or of high value at aschion. This is not exceptive though bargens can be found. Auctions are a great to find core wines though Restors aneanced 16th Mach that the champage fordat bottom of the baltic Sea will be actioned off at Ackers seen. auction also take place in some one spere produces sell their wine direct. The chartable

auction Happice de Bearne being the most famass Gamony also sells high goality whe in beally actions Aschon for whe have gram ereconosly in last 5 years. The acction houses interesting strength It will be strength. to they will be able to continue Dine actions have impressed dramatice This is doe to the reduction of tox in HK going from 40% to 0 in 2008. Since the Resters say goodropled that Dive imports into Hong Kong have. and in 2010 they were of the value of \$898 million (Nor 4"2011). Hasever, byjing at archion is with out its risks. This essay will look advantages and disadvantages of boying wine a + asction The edvantages of haying whe at auchie many. You can bey anique wines that porchased onywhere else. The able to faltic sea and the Thomas Jefferson prime exampes, Though the TI pines have been chimed as fake since.) Nevertheless unique are often sold at austion, - place where you to porchase It 15 of older rintages that are rare. its drinking_ more consomed 15 ges from the (19th and poth action particularly the best years sach 1982 in gardeerk

"It is also a place where you can get Despite Klong Kong celling a hoge amount of aciation, Baraleox has recently been less popula sothely January some Leaville has carsed At the 45% below its morket valo There is also a lot of for boying at aschir The fact that it is a live stage an add a lot of excitment to the processs. However, despite being able to get some bages and ald vanlages there are some dissolverbages to buying at asction. These have been highlighted 61 necest scandels. Frand is an encorrans problem in the wine most recently Rody Korniacon was arrested for fraud. for falking wines by mining ald, less expensive wines together and selling the under labels such as Rommer- Centi. Rooly regularly sold his wines through eaching have in 2008 oction Losse pulled 27 lats of Domaine Pensot request of the proprietor - the mine was tra en back to Rody. Recently in London 75 bills isere polled from a speatrom anotion, the pere Domaine RC and also thought to have come from Roady The best maction houses do their best to conter it is everywhere. If a person wishes frand bot_ at auction they must have to bey wine provenance of where the wine has come from. contradict what was said eatier Auction 10 House are not champs a worgan. In 2011 decenter magazine did comparisons between various vintages and what they sold for in HK auction lof ite of HK bayers paid the UK trade price was textitie. 23º/o - 197% more for their between Bryndy is in fation, recently a case of 1985 Romance- conti sold for \$1.2 millio (HK) Domaine_

There are also extra cost rach and the bayers fee added on by the arction hanse. This is ascally roand 10% ... Often yes can not tenste the same you buy it, but that is usually the rase withe expensive wines There are advatages + disadvatages to baying action. A boyer should always check the parenere of the wine, inspect the bottles before and check the maket value of the sine if they want to guarantee success at auction Wine frood it a typic that has been in the news regularly Intely. There are different means of ane found. This essay will look at the types of ine pine paud and everlate how to try and ninimise them. As discossed in the previous essay which frand is happening a lat. One of the ways it is occoring by people, such as Rody Koniawan areating fake battles of wine. These is done by blanding wine togethe to create something that might taste similar to it should be to minimise this happening Restaunts should not give out out bottles or labels to costomers Kornians seed to have battles shipped to him is from various restarcats and it was these that he would 1.11. The restaurats could also make the label to say it has been atonk when Baction hosses are boding at since they should be very castines and sheak the allage on Inhele for my spelling mistakes or missing accents Try issoes with the sine the should repare to sell

Bordens is apprently taking stops to prevent this type of frand. They have tired a knower maged to shat down 100 fact bottling c. socartly china. Jancis Robinson reported on this plants the finacial times, on Mach J 20121 trand does not jost happen The aschin hoge amount of reports regording Leases. P wine fround in wine graking has accured recently Dine Rosiness had an article on the 27 out 2011 ist claimed that Premion light Assets, who wave broking firm has disappeared. They had \$50 million (HK) of their clients money and to be feer in HK you do not trade when this most be implem peoples assets to protect said that in the 12k pine brokers need personel and for licence poth Mc affice yet the RBC April 13 2012 doined news maline 10 braking 4 pine years Limo of Envestors \$100 million workh ione boke like to inves her they most use a repotable company with an address and phone number - met a a isobsite. The lass for wine investment be tightened Another type of wine frand which is very common in china is 'fake brands such as lafeet! China is a growing maket hea interested in wine. Dune education will lake brands along sell

Fine Dine Frand is more of a problem than ever before. Haverer, if a oction haves are thorough at checking wines, strickter roles for wine Brokers and investment firms implemented and the general knapledge of whe in graping mothets increased then the problems can be minimised.

Unit 2, Wine Production

This report does not give examples of questions used on the Unit 2 paper as these are live questions and not in the public domain.

Nevertheless, it should be pointed out that statistics continue to show a very good pass rate for this paper. Whilst the questions are certainly not easy, candidates have little to fear providing they study the Diploma Course Notes thoroughly and read around the subject. Visits to wine growing regions and winery tours are also invaluable in understanding the "theory" of this unit.

Unit 3, Wines of the World

Tasting Papers

It is clear from analysis of candidate performance that many struggle to get to grips with the Systematic Approach to Tasting (SAT) and how exactly this should be used.

In August 2012 the WSET issued a fully revised edition of the Candidate Assessment Guide with a long and detailed section on the SAT and its use. It is imperative that all candidates read this document which can be found on the Diploma student section of the WSET website. Rather than repeat its full contents here, this report will simply highlight important general guidance on how to use the SAT along with some common errors that examiners encounter.

Important General Guidance

Hyphens and Commas

It would be helpful the read the following guidance with a copy of the Systematic Approach to Tasting to hand. It will then be seen that the SAT is formatted to include two different lines of text, one where entries are separated by hyphens and one where they are prefixed with the words "e.g." and separated by commas.

Where terms in the right hand column of the SAT are separated by hyphens (for example lemon-green - lemon - gold - amber - brown), candidates should select only ONE of the terms to describe the wine. It is important to be specific, even if the wine appears to be on the border between ruby and garnet for example. Candidates need to be decisive, rather than use a vague range such as "ruby-garnet" or "ruby to garnet". If both ruby and garnet are valid descriptions, then this will be noted in the marking key and examiners will be instructed to award marks for either colour. If candidates use a range statement such as "ruby to garnet", "low to medium (-)" etc., then examiners will NOT award the mark even where the marking key notates a range of options. This is because candidates would not be using the SAT correctly. In addition, where candidates use alternative words such as "straw", "cherry" etc. for colours, or "crisp" for acidity without qualifying a level, they will also NOT be awarded marks. Candidates and/or educators may know personally (or within their community) what they mean by these and other additional terms. However, for the examination to be valid and reliable, the use of terminology between examiners and candidates needs to be consistent. The main reason for limiting candidates to the terms defined in the SAT is that calibrating eyes, noses and palates to arrive at consistent use of these words alone presents a challenge, but one that is manageable. Achieving the same consistency with a wider vocabulary would be considerably harder, and is in any event unnecessary because the terms provided in the SAT are sufficient to describe any wine with accuracy for the purposes of the WSET Diploma qualification.

Where terms in the right hand column are preceded by the words "e.g." and the items are separated by a **comma**, the candidate is not restricted to the terms in the SAT in isolation. In the case of the lines relating to aroma characteristics, flavour characteristics and "palate: other observations" candidates are strongly encouraged

to use the lexicon on the reverse of the SAT. This lexicon is used in the production of the marking keys, and candidates will be able to gain full marks where relevant using just those terms. However, should candidates wish to use other words or descriptors to supplement their tasting note, the examiner will award marks where these are judged to be appropriate. This means any additional terms used by candidates should be capable of being understood by the examiner, as well as being valid descriptions of the wine.

Three Point and Five Point Scales

In most instances where hyphens are used, candidates are required to place the level of the various components on a scale ranging from low (or pale, light, dry, short) to high (or deep, full, luscious, long). These should be treated as three-point scales (as with the WSET Level 3 qualification) that are further subdivided. Medium (+) is therefore not a point that is equidistant between medium and high, but is a subdivision of the "medium" level descriptor. It can be thought of as being "medium" that is towards the upper end of the medium band". "Medium" is sub-divided in this way because the majority of observations for the majority of wines lie within the "medium" band, and subdividing it in this way makes it possible for candidates to differentiate between the large number of wines that lie within this commonly-used band. For most components of the SAT, it is only "medium" that is subdivided in this way, but sweetness is the exception. In this instance, each point on the three point scale is further divided into two. "Dry" is subdivided into "dry" and "off-dry", "medium" into "medium-dry" and "imedium-sweet" and "sweet" is subdivided into "sweet" and "luscious". This reflects the fact that most wines are dry or off-dry and takes into account the huge differences in sugar levels between sweet wines.

It can be tempting for candidates to over-use the term "medium" (including + and -), but the danger is that their tasting notes will fail to sufficiently capture the differences between the wines they are assessing. Some candidates have found it useful to make their initial assessment of the wine using a non-subdivided three point scale. The restricted range of terms encourages them to be bolder in their use of the full range of the scale. Having done this, they can then return to the components they have described as "medium" and decide whether these need any further refinement using the (+) or (-) notation. Another way to help avoid over-use of the term "medium" is to think of this (including medium + and medium -) as meaning the same as "unremarkable". For many components of many wines, the level is indeed unremarkable, and in these cases it is appropriate to use medium (including + and -). However, many of the wines presented to candidates in Diploma examinations will have at least some components that are markedly high or low.

Candidates should remember to use the terminology as it appears in the SAT when using the scales. This may appear to be very stark language but these terms facilitate fairness and consistency in the examination process.

Assessment of Quality

Many candidates give insufficient information when assessing the quality of the wine or simply repeat the observations made under the nose and palate without explaining how they relate to quality. The assessment of quality should seek to place the wine in an appropriate quality category, and, **most importantly**, explain why it belongs in that category. It is not sufficient to simply state what the wine is. Ask yourself how you would describe it to a customer, is it a large volume wine that is correctly made but lacking in complexity? Is it a top quality, premium wine, and if so, what leads you to this conclusion? The components that contribute towards quality are intensity, structure, balance, complexity, typicity and length.

It is important to remember that quality judgements in the Diploma examination should be absolute – i.e. not taking price or origin into account. However, if candidates are sure of the origin, they may find it helpful to use established quality scales (such as regional, commune, premier cru, grand cru in Burgundy) to convey more precisely how good they think the wine is. This is optional.

Country of Origin

In most instances, one mark is allocated for correctly identifying the country and two for the region. This is to allow those candidates with superior tasting skills to demonstrate these by identifying the origin of the wine precisely.

However, the increased "homogenisation" of some wines makes it increasingly difficult to identify regional typicity in all cases and sometimes it is genuinely felt that some wines could be from a number of countries. In these cases, we sometimes reverse the emphasis of the marks, giving two marks for country and only one for region, or markers may be instructed to allocate marks for more than one country or region. This is particularly true in the case of some New World wines and a case in point was a California Chardonnay where marks were also awarded for identifying this as Australian. However, candidates should not list more than one place of origin in their answer, particularly where multiple origins cover different styles of wine or simply appear opportunistic such as the following candidate:

"This wine is from Italy, although it could also be from California or Australia."

Common Errors

Comment on Every Line of the SAT

One way to lose marks on this paper is through poor application of the Systematic Approach to Tasting (SAT). Missing out key features such as sweetness, acidity, body, alcohol etc. is simply throwing marks away.

Judge Each Wine Individually

Many candidates still do not appear to understand what is required in a professional, analytical tasting note. There is a tendency for some to compare the three wines rather than describe them individually. This leads candidates to write imprecise comments such as "deeper than wine no 1", "more intense than wines 1 and 3", "higher acidity than wine 2". This is not correct application of the Systematic Approach. Each wine must be assessed on its own merits with all attributes analysed according to the terminology defined in the SAT.

Do Not Jump to Conclusions

Finally, the most common problem is that of smelling and tasting the wine and deciding what it is before writing the tasting note. This inevitably means the candidate writes the tasting note "to fit" their (often incorrect) conclusion rather than concentrating on what is in the glass and then drawing conclusions based on this information. It is vital to keep an open mind when writing tasting notes.

Order of Tasting

Do not assume the order the wines are presented is the best order in which to taste them. In any tasting examination, whether Unit 3, 4, 5 or 6, the first step should always be a quick nose of all three samples to determine in which order they should be sampled. This usually results in assessing the least intense wine first and working up to the most intense or complex. This ensures that your palate does not get overwhelmed by a heavily oaked Chardonnay which then makes it impossible for you to detect the delicate, yeasty aromas of a simple Muscadet for example.

Tasting Paper 1

Question 1: Wines from a single grape variety (not given)

It is clear that candidates find the format of the questions in Paper 1 more challenging than those in Paper 2. The easiest way to lose marks in this paper is by failing to identify the grape variety. A number of candidates insist on giving a different variety for each wine despite being told in advance that one variety applies to all three wines. Another classic mistake is assuming the identity of the grape variety on the basis of the first wine tasted. It is easy to become distracted and attempt to make the remaining descriptions fit the variety chosen rather than using the information in all three tasting notes to arrive at the correct variety. A number of candidates give two varieties rather than one. This is "hedging your bets" and earns no marks at all even if one of the varieties is correct. If asked to give <u>one</u> variety, that is what you must do. In addition, the candidate must give evidence of the logic behind their decision. It is not sufficient to simply recognise what the grape variety is, you must be able to demonstrate how you arrived at this conclusion. This section carries five marks, and you should therefore aim to give at least five valid reasons for your choice.

January 2012: Red wines from Pinot Noir	
Answers: 115	Passes: 74 (64%)

The variety was relatively easy to spot with 60% of candidates getting this right. The line-up included a Burgundy (Morey saint Denis), German Spätburgunder and an Australian wine from Adelaide Hills (Wakefield).

The German wine was often overestimated in terms of quality and often mistaken for Burgundy by those candidates who correctly identified the variety as Pinot Noir. In most instances marks were lost because candidates either gave the wrong variety or were unable to give convincing reasons for their choice where it was identified. There were also a number of illogical varieties put forward such as Cabernet Sauvignon (the colour was far too pale for this) and Cabernet Franc (a very different flavour profile to Pinot Noir).

June 2012: White wines from Chardonnay	
Answers: 331	Passes: 227 (69%)

The line-up included a very good quality Premier Cru Chablis, a very good oaked Australian wine and a good, but not exceptional Chilean wine.

The inclusion of an Australian oak aged Chardonnay alongside a restrained classic Chablis should have helped candidates to identify this variety correctly, but this was not always the case. The relatively subdued elegance of the Chablis was often underestimated as "evidence" of lack of quality whilst the ripeness and upfront fruit of the Chilean wine conversely led a number of candidates to overestimate the quality of this wine.

Along with the usual errors such as not using the correct terminology or forgetting to comment on all attributes of the wine, there are still those candidates who do not read the question – in this instance, giving a different grape variety for each of the three wines rather than one variety common to all three.

Question 2: Wines with a common theme

Despite being given information in the question regarding the common theme, a number of candidates ignore this and lose marks as a result. The importance of reading the question cannot be stressed enough. There is often information in the stem that is there to help and guide you in your assessment of the wine – ignoring this is careless and simply throws marks away unnecessarily.

January 2011: White wines with a common link in respect of the growing environment	
Answers: 115	Passes: 61(53%)

This was a disappointing pass rate. Many candidates lost marks because they made incorrect or illogical assumptions. There was evidence to suggest that some did not actually read the question at the top of the paper, assuming that the "common theme" would be "country of origin" as in many previous years. As a result, a number of them simply gave a country as the link and lost marks as a result. Some candidates left the final section of the paper completely blank and therefore lost out on 10% of the marks. There were those who gave illogical responses, for example citing "use of oak" which of course has no connection with "the growing environment" or those who identified the link vaguely as "varietal" or more specifically by naming a variety (Riesling, Pinot Gris) or a specific wine (Vinho Verde). Some showed a distinct lack of logic, claiming the link was "hot climate", "New World", "Mediterranean", or gave simply bizarre or vague connections such as "bulk wine on flat plains", "long warm summers".

With questions 1 and 2, it is important to use the information within the tasting notes themselves to arrive at the information that will provide the answer to the final part of the question. In this instance, all three wines were grown in a cool climate. The clues within the tasting notes that should have led to this were the high levels of acidity and the light texture of all three wines. Alcohol levels were also relatively low. The high varietal flavour development in all three wines along with the high acidity, indicated long, cool ripening of the grapes and the "green" flavours found on all three wines was another pointer to a cool climate. Identifying the grape varieties for the three wines would also have helped as these are all known for their success in cool climates.

The three wines in this paper were a Muscadet Sur Lie, a New Zealand Sauvignon Blanc and a Mosel Riesling Kabinett.

June 2011: Wines with a common link in respect of origin		
Answers: 331	Passes: 193 (58%)	

In the June exam, the common link was once again "country of origin" – in this case Spain. In a departure from previous papers, the examiners decided in this instance to include both white and red wines in the line up. This was done specifically to make the paper easier for candidates, however many still struggled with this line up which consisted of a good quality Rias Baixas, Rioja Reserva and a good quality Priorat. The following candidate was not one of these, submitting an excellent paper, not only identifying the country of origin and giving convincing reasons for this choice, but also identifying all three wines and giving accurate and extensive descriptions.

WINE No. 4 Appearance: (3 marks) the whe is clear of medium intrisity and lenon green in color, fading to a wide water rim Nose: (7 marks) the nose is clean and of medium (+), intensity, youthful and floral with notes of orange blossoni peach, apple, citrus-leno, orange, lees, and a nintor pinepple. Palate: (10 marks) the whe is dry with midium acidity, nedium body and medium alconol. The flaver intensity is nedium 1) and foilows the nose with floral notesorange blossom, apple blossom, white plants, and fourt apple, peach, citrus - leven, Lees. The finish is of medium ungth. Assessment of quality: (6 marks) This is a good quality mid-priced aromatic white, the oromes and plavors are bright and well balanced with the acidity and fruit. Intended for more dirate consumption and mid-morket. the best examples of this style might navement Concentration and Complexity, Readiness for drinking/potential for ageing: (3 marks) Drink now, this whe is not intoded Grapping -Scautiful floral gromas will finde. Region of origin: (1 mark) KlasBaixas

WINE No. 5

Appearance: (3 marks)

the whene is clear, nedium(+) gernet in color facing to a thin gernet rim snowing hintsof orange. the wine has slow moving legs.

the nose is clear, of medium (+) intension and developing with notes of smoke, leather, oak-voolther, toast, baking spice, bacon, there are redard black four aromas - plan, chenz, wild strawberry, also a hint OF mineral, the fruit is ripe, with some baked/dried Palate: (10 marks) fruit notes as well.

The wine is dry, with medium (f)acid, medium body and medium (2) alcohol. The tonnins are of medium' intensity and are ripeard fine approved rather dusty, the plavars one af medium plus intensity and follow the nose - smoke, spice, oak, toast, leather, plum, wild straubory died fruit, cherry, earthy notes. The length is medun olusi

Assessment of quality: (6 marks)

This is a good quality reservateuel whe shark Shap some cise. The fit is still present and integrated, with the obvious oak, and the toning are well balanced, smath and softened, there is reasonable complexity with layers of primery secondary, and tottiary laried fount, leather shavors. The Readiness for drinking/potential for ageing: (Smarks) DEST examples might have more concern training and e0.00 Drink now, will not improve further in bottle bright can keep for up to 5 years. truit. Region of origin: (1 mark)

Rioja

WINE No. 6 Appearance: (3 marks) the wine is clear, deep ruby in color fading to a thin ruby rim- with hints of purple on the rim, the legis are pignented and sow-moving. Nose: (7 marks) The nose is clean, of medium (A) moting and youthful with noctruit-plum, rasobery, blackberry, brueberry, son, dried fruit-fig, varilla, baking spice. Palate: (10 marks) the whe'rs dry, with medium (+)acidity, medium plus body and midium plus alcohot. The tannins are of medium(+) intensity -very ripe and supple. The flavor intrisity is medium with ripe fruit -plum. blackberry, black cherry, blueberry with mineral notes and a hint of bitter chocelate. Fresh, baked, and chied fuit all present. Flavors lingerover mediumplus Light. Assessment of quality: (6 marks) This is a very good quality wine, high potest premium priced. The ripe fruit, med Altoning and med flacidity are well balanced and there is a score concentration of flavor with complex layers of flavor. Best examples might offer even more concentrationed CovOVCC (U) Readiness for drinking/potential for ageing: (3 marks) Drinks well now will improve for 3-5 years a keeperen lenge Region of origin: (1 mark) Priorat COMMON LINK IN RESPECT OF COUNTRY OF ORIGIN: (5 marks) WHICH CHARACTERISTICS IN THE 3 WINES LEAD TO THIS CONCLUSION? (5 marks) Renar of wines chosen leaves few countries -gromatic white, cakaged (lengthy ago) red and bold concentrated red point to spain. The aromatic notes of the white bre very typical of Alborino and the savory daked concentration and flavore of the remaining red could

Tasting Paper 2

Question 3: Partly-Specified Wines

As the focus of this question is to test the candidates' ability to differentiate between the quality levels of the three wines, it is vital that the candidate fully understands how to demonstrate this skill. Unfortunately many are confused or not precise enough when it comes to the quality assessment. Comments such as "average quality" will not gain marks. This section of the paper carries a large number of marks and comments such as "good" or "AC level" are simply not sufficient. What the examiners are looking for here is a statement of the quality of the wine that is supported by well argued reasoning and analysis that demonstrates an understanding of the elements of a wine that contribute to its quality. The key to success with this question is being able to recognise these characteristics. Once the premium wine has been identified, the other two should fall into place.

The format of this question allows the Examination Panel to select wines, which, in a blind tasting, could be considered too much of a challenge. In some cases, we might consider a grape variety that may be less familiar to some candidates. Removing the pressure of needing to "identify" the wine, means that candidates can concentrate on writing accurate tasting notes describing the wine and focus on relating the evidence they extract in this process to an evaluation of the possible quality level. In reality, for many, quality assessment is a significant area of weakness so this paper is not as easy as it appears.

January 2012: Alsace Pinot Gris	
Answers: 115	Passes: 77 (67%)

The wines were Alsace Pinot Gris – a basic Hugel wine, a very good quality single vineyard wine (Domaine Bott-Geyl Sonnenglanz) and an SGN from the same producer.

As in previous years, it was in the assessment of quality where marks were inevitably lost. This accounts for 27% of the marks on this paper and is costly when done badly. Determining levels of sweetness was another weakness in a number of instances, along with a tendency to find evidence of oak when this was not present. Oversimplification leads some candidates to assume "creamyness" or "texture" can only be due to use of oak without considering other options that can lead to this characteristic in a wine.

The following extracts from two scripts show the difference between the short, "list" approach that results in low marks and fail grades, and the comprehensive, descriptive tasting note that generates high marks and therefore high grades. Poor note:

WINE No. 7 Appearance: (3 marks) Clear deep orange colour, m+-legs Nose: (7 marks) clean, pronounced, honey, apricot, marmalade, christmaspudd, hazerhuit, very complex Palate: (10 marks) not sweet), rich fruit character, mt deid blanced with ite simit, mt-Alc, m-body, maturing long langth Detailed assessment of quality: (9 marks) Very high quality, Tokay 5 putto good blalance and complex and concentration \$ 6000 n 6.500 Readiness for drinking/potential for ageing: (4 marks) It can drink now but can keep more 10~15 years

Good note:

WINE No. 7 Appearance: (3 marks) Bright and clear. Median (4) intensity of gold love with a pater watery rim . Some heavy Nose: (7 marks) Clean. Medican (7) intersity of fully developed nose of honey, toffer, carmel, botrytis notes but still got some floral and line and fied a pricot piheapple, mango Palate: (10 marks) Heary sweet. Medium acidity. Medius alcohol and full body. Medium (+) intensity of dived fuit of a pricot, piheapple, manyo, caranel, honey. botypis note. Rich and expressive with nich texture. At Long longth . Detailed assessment quality: (9 marks) Very good quality Aoc whe of premium priced market Suggesting an estate bottle SGAT botry tis affected sweet whe. Sweetness is well integreated with reasmake acidity and nich fight body cexture. Good complexity from ripe famit/and botry his derived aroma. Very good finish length and concentration reflecting this assessment. Readiness for drinking/potential for ageing: (4 marks) heady to drike . Good concentration and complexity makes this wine able to at improve in next 3-5 years then keep for another 4 - 6 years.

June 2012: Australian Shiraz	
Answers: 331	Passes: 232 (70%)

The wines in this trio were Australian Shiraz – a simple basic wine, and two far more structured wines with intense fruit. The difference in quality level between these two was quite subtle, but was helped by the difference in style – the better wine being a Barossa Shiraz (St Hallett Old Block Shiraz 2008) with slightly more power and concentration than the Clare Valley wine from Skillogalee.

Question 4: Unspecified Wines

It is a common misconception amongst candidates that if they identify the wines correctly, they will pass this paper. This is simply not the case. If you total up the marks available for the conclusion compared to marks awarded for the sections on the appearance, nose and palate of each wine, you will see that the tasting note itself generates the bulk of the marks, (20 marks for the description, 8 marks for the assessment of quality and state of maturity and only 4 marks for identifying the wine and grape variety). This means it is quite feasible for someone to write accurate tasting notes, yet not identify the wines and still pass (sometimes even with a high grade), whilst someone else can identify all three wines yet fail because their tasting notes are inaccurate and short. It is not enough to simply recognise what the wines are (anyone can do this if they taste a wine often enough). The candidate needs to be able to strip the wine down to its component parts, describe these accurately and make judgements based on this information. This is what professional tasting is all about. Without an extensive and accurate tasting note, the examiner has no way of knowing whether the correct identification was anything more than a lucky guess or the result of tasting something familiar - no tasting skills have actually been demonstrated. The answer lies in the accuracy of the tasting notes themselves and in the assessment of quality.

Candidates often fall prey to the common error of deciding what the wine is having smelt or tasted it, and then write a tasting note to match their conclusion, which in some instances may be incorrect. This is easy to do under examination conditions and is very tempting when you think you know what the wine is. However, it is always a bad move as the tasting note is invariably less accurate because the candidate tends to describe how they "expect" the wine to taste rather than how it actually does taste. It is vital to keep an open mind until the tasting note has been completed and reviewed, and only then to reach a conclusion as to what the wine might be.

January 2012: Red wines – Château des Vierres Beaujolais Villages 2009, Chinon Les Gravières 2009, Seghesio Sonoma County Zinfandel 2009

Answers: 115

Passes: 72 (63%)

There were very few exceptional scripts in this paper, with only three candidates achieving a distinction grade and very few submitting sound assessments for all three wines.

The California Zinfandel seemed to give the fewest problems in terms of the description, although identifying it correctly was another matter. As in past papers, candidates seem to find these "big" New World styles easier to asses than more subtle wines where they have to look deeper to identify the characteristics.

June 2012: Rosé and White wines – Domaine des Martyrs Côtes de Provence Rosé 2011, Pouilly-Fuissé, Sybille Kuntz Riesling Trocken 2008, Kim Crawford Marlborough Sauvignon Blanc 2011

Answers: 331

Passes: 240 (73%)

The Riesling and Sauvignon Blanc were straight forward for the majority of candidates sitting this paper, although many were thrown by the dryness of the Riesling and also underestimated the age of this wine. There was evidence to suggest that the identity of the rosé was largely down to guesswork, although better tasters took into account the colour and the structure in determining what the wine might be.

Theory Paper

There is definitely a technique to answering questions in the Unit 3 theory paper and a few simple, common sense rules can help to maximise marks.

- 1. With a requirement to answer five questions in total in three hours, some candidates clearly do not pace themselves appropriately, producing three answers of reasonable length, then two that are skimpy or rushed (or in some cases only one more). More practice at writing essays precisely, and within the time allowed is essential examination practice. Candidates should allow themselves a maximum of 30 minutes to answer each question. This will leave them half an hour to spare. The best way to use this time is to read through the examination paper and decide which questions to attempt, spend around five minutes on an essay plan for each question, and use any time remaining to read through responses before submitting them for marking.
- 2. There is often very little evidence of candidates planning their responses. It is always a good idea to make a quick essay plan before starting to write. This ensures that the key points are covered in a logical way. Those who do not follow this advice often fail to address specifically the key words in the question. The five minutes spent jotting down key facts is never time wasted. This is often the best way of determining which questions are the best ones to attempt. A question that seems easy initially may be one that is difficult to come up with hard facts for. An essay plan is the best way to determine if this is the case.
- 3. When drafting questions for the Diploma examination, the Examination Panel takes great pains to ensure that the wording they choose leads candidates to the answer they require. This means that questions contain vital, key words that form the basis of the question and therefore, by default, the answer. It is a really good idea to underline these key words and use them as the basis for the essay plan. This ensures that all aspects of the question are covered and the writer does not stray "off topic".
- 4. Some candidates do not appear to read the question carefully enough. This is often a problem with "multi part" questions where the candidate may be asked to write about four or five topics from a list of six for example. Candidates who mistakenly answer all six sections are creating unnecessary work for themselves as the examiner will only mark the number of sections requested in the question and ignore any surplus.
- 5. A number of candidates simply write generally "around" the question, without actually answering it as set. Remember, questions are set with a purpose none of them are phrased "write all you know about....." Examiners work from a marking key or marks schedule that details the scope and detail required in an answer. They will not allocate marks for information that is not relevant to the question as set.

January 2012

Group A: Compulsory Question

What are the strengths (50% weighting) and weaknesses (50% weighting) of Languedoc-Roussillon as a wine producing region?

Answers: 153

Passes: 105 (69%)

This was a good result for a compulsory question which leaves nowhere for the really weak candidates to hide. Of those who failed this question, there were as many who did so with a fail (unclassified) grade as those with an ordinary fail grade. There was also a fairly equal split between those achieving pass and merit grades.

Candidates were generally better at identifying strengths than weaknesses and there was evidence of a general lack of commercial awareness, with many missing obvious weakness such as competition from new world wines, the drop in consumption in the domestic market, rising costs of production etc.

The following script is a good example of one that achieved a high grade. The candidate makes plenty of valid points which are put across clearly.

Shrengths 0.9 anad Lan On . ~ .

One of the most striking factors about "The shear Launquedox- Roussellar is made nariaty that of nines are many different grape navie , different climates anted Lernoire les and may production Lectriques and producers nines nade there varae economical mines, hop lend ho tha 22 can expersive This -Lachar can uno region's fancier, namich means The there be something for me certainly in the negion, somewhere mad also contributes to the negion's of identify alroad, and lack of recognition Homener the nariation found in languadóc Roussellon highlights many of regione strengthes. For example has Inadiliaral Appellation Cartrolléo as recognisable Vin de meas, as nell Pays an FilanAC, Minernais eas recognisable ane all nances Contrieses AC Uk norhet, as one Un de Pays on the de langerdor konseillan and Pars Vude de Cohes Catalais The fact that international narrabies can be planted for Vin de Pays mines a definites shrength cans here is recognize grape va Chardonney and cabonet vecaquise) can adiliard such local narielies signare and Ciusault.

region bean has receiving 6 2 Th years necert a re 1'C nin 021 NI strength 10 2 91 ad 1)00 9.8 roc SU al a his 00 is 0 languedoc the 9 ales mag Chengles e lays Suple tan Viv SIC Chardon ie as 10 2 Signa Part 10 0-operatives 20 bean mese 0 0 0 yeare gratin iA recent in MC licpon forieral basod Nea 5 2 Pinel prod hottes de 0 ou NURS ma. 12 ane shee a Kas is lan 0 od er pe 8 1S non 20,209 nea han na 0 0 00 28 havel and na las neplace age uas upravie bl Grenactio Saury Cabenet 2 0 0 3 Signah ۸. 1 .

0. rded 28 is 1ar 03 A ۲ ning 00 24 9 a 0 00 Ca has 0 nor ane 00 Pa NOC 6 CO illonona 208 a P prach 100 2 CO pro a 2 200 9 S

Group B: 4 questions to be answered from a choice of 6

What are the characteristics of Merlot that have made it such a success with producers and consumers? Illustrate your answer with examples from Europe and the New World. (An essay format is COMPULSORY for this question)

Answers: 120

Every Unit 3 theory paper contains one question that must be answered in an essay format. These questions are usually more topical and discursive in nature and are therefore more suited to this form of response. This was a fairly popular choice of question, answered by 78% of candidates, many presumably attracted by the apparently "open" nature of the question. This was a mistake for many of them, as this question needed plenty of detail relating to the grape and good examples of specific wines for a sound pass grade. Of the 60 candidates who passed, more than half of them did so with a low level pass grade – there were very few really strong responses and only two candidates achieved a distinction grade. The examiner commented that too many candidates allocated too much space in their essay to listing where Merlot is grown rather than using examples of wines to illustrate why it is such a successful variety.

The following candidate was one of those who missed out on a top grade because although the essay is clearly written, points are argued well and it is very good at identifying the commercial appeal of Merlot, it is missing out on many of the characteristics of the grape that make it so popular and there are no <u>specific</u> examples of wines – just generic examples.

had success both as a varietal who Merlot origil Classically (0. always Ba 100 milion On 0 aw 0,10 Compon Inl 1.5 O. 2ml 10 in 0. who phonove mon scentes Lo acrocit reenti Coul tread 50 10

this restrained acod Dy and fanniz Rat malles medet such a his anti when Cansamos it with easy disting. associate Since ne aley World has openod up anas excoptonally been market renter marcol ly from varietal - us on pres such as Clitet producing con in Sicily pays produces rance de Latdedon 120 Stice, 5 60 1-5 brand' Ma is one of 14as most vanctic grape troum 62 Con rough inde iz 102 :UTh Lor and 6-Respective 21 40 produ WHE Weisonash easy fo optor Sca ine 0-0 average twelings The af stin automatically doesn 4 have loads of eg Nespish stimmen verveties (Aco Ande LWar Stine. ac1 thin 1.4 40 Splitting 60 cheil damage pron Climates oroducers alle sure physiolognal NO MA and stalls pips office relappe of 720. an wine as in safel Heiners 40 fle Sta 1 Bank appellations Cooler 9 1crh Cag this niggle with In hot climates prode ausuic a salier must of annos develop in over-1010-e ano Son. happy On 50 chicklolig: ą such hren an M m 0 moundo mys a homogeneity 15 al ocrate. Acit th summing round the NO

is a areful groupe to produces if to others to bland in to stasihie archill n whage. Montos can add Suppleness, and and texture to thinker wines Eston-Also promoted by films such as SIDEWHYS accordential) pust winforced Strength BRAND. a The on-trade have also lateled on When aloo panytimoes the consume male majority of puss rathe UK list Childan ne Athractive phicing is as their house. Wine. Often tran prenium My 4 bank theter. a or pertortions manot leads to be Bordlowy lot of bull is produced theypensive martin + California. tralia Siah 0 Mag. Ahrang needium 5.2 iler Can amale Hand out food which huge populant neur any WINE S Pacher to lost consumers do not have F Challouging an 0 Particularly tle 12 ne a st food and 201 while 50 success of oppapes the no 3 wrephon blace fim the non roled and almost then plum pheos saletnoss Montifs thay is that of a with 60 will never let you down oppose or produces the woris to have Large a ranget for their whe, a varietally chelled good set at the point clocket is h Nght price

In relation to Australia and/or New Zealand, write a paragraph on FIVE of the following:		
 a) Hawkes Bay b) Grenache c) 2011 harvest in Australia d) Tasmania e) Screw cap f) Pinot Noir 		
Answers: 138	Passes: 91 (66%)	

This was the most popular question on the January Unit 3 theory paper, chosen by 90% of those sitting and was almost certainly answered by those candidates sitting in our new Diploma APP in Australia. However, there was one very unpopular section in this question – the 2011 harvest in Australia. Very few candidates tackled this option and many who did, got it wrong with many of them totally unaware of the problems attached to this vintage such as widespread flooding.

There were inevitably candidates who forgot to link their answers to New Zealand and Australia, particularly in the case of the "generic" topics such as the grape varieties and screw cap where many candidates wrote about other parts of the world. This was a particular problem with Pinot Noir, where there was far too much reference to this variety in Burgundy, and there were also those who only wrote about Australia OR New Zealand rather than both where relevant, or wrote too much about sparkling wine in the section on Tasmania, forgetting that the syllabus for Unit 3 covers still light wines only.

The following script is included for two reasons:

- It gives good responses in all five sections something that is important with this style of question, where each section carries 20% of the marks. One or two weak sections puts the candidate in a position of weakness, and often leads to failure. It is true that the section on Hawkes Bay is the weakest, but this candidate has still provided enough facts for a pass grade in this section and others are considerably better.
- 2. Responses in all five sections are extensive. Many candidates who fail, simply do not write enough. This candidate has written an average of one side of text on each of the five sections (the exception being Hawkes Bay, which is shorter). Many candidates who fail, struggle to fill two sides of paper for all five sections in total and are surprised that this is not sufficient for a pass grade.

a)	Hankes Bay is a grape growing region (one of the
	first with significant plantings) on the East coast.
	of New Zealand's north island. The region
	surrounds the towns of Napier and Mastings.
	Haukes Bay has a warm maritime climate
	Harbes Bay has a warn martine climate, with year round rainfall. Soils are highly
	variable, but the himblett Gravels subregion
	in particular in well brown for its alluvial
	river gravels.
	The most grown varieties are Chardonay and
	Mertol, Though Sauvignon Blanc and Pinot
	Noir are also grown.
	Cintlett Gravely has gained a reputation
	for it. very high quality syrah and Bordeaux
æ .,	Hends, particularly from producers such as
	Craggy Range and Trinity Hill.
	Many other suppliers source grapes from blankes
	Bay including Brancott, Stoneleigh, Oyster Bay
	(Merlot)
b)	Cirenache has a long history of being grown in Austalia. Being drought resistant and well
	Austalia. Being drought resistant and well
	mited to warm, dry growing environment,
	it has performed well particularly in South .
	Sustralian McLasen Vale and on the Ironstone
	and Limertone soils of the Barossa Valley
	From the late 19th century -lil mid 20th
	century grenarche was most used for fortified
	wires, which accounted for the majority of
	production in Australia until the 1960's. Once
	tastes turned to still wines, grenache didit
	immediately benefit from the Jashion in Australia
	and overseas for caberard samigron in the 605-70%
	then Missay from 1980's. Some of the very

old vines dating to the mid- 19th century in Barossa were removed as part of the 1936 vine pull scheme." Thankfully some remained and are now treasured for their concentrated, (on yielding muit As all things Rhove have become fashionable sustralian grenache is now much inore appriciated both as varietal wines such as those of Turkey Flat and Civillo, and in southern Rhone blends such as Penfolds Bin 138 and d'Arenbergi 1. onstone Pressings. d'Arenberg has recently released a number of volume, concentrated and expensive single grenacher. Australian Cerenache is typically medium to medium @ intensity recty in colour with aromas of cheny chocolate, plum, stranbeny, coconut (some aged in American Oak), and a rich dry - though fruit-sweet - palate of ripe red and black fruit, chocolate, and rype medium level tennings Tasmania is Australias most southerly state, lying to the south of Victoria. It's climate and. wires are more similar to Those of N'ew Zealand than mainland Australia. Climate is cool and maritime, though can vary substantially - some sunny sheltered sites are warmer than parts Victoria. 85

Tasmania does not have a long history of viticulture, but as demand for cool climate styles gathered pace in Australia and elsewhere through the 1990's - early 2000's, plantings have rapidly Grown climate varieties dominate - riesling Cool pinot noir, sawignon blanc and chardonnay are the most widely grown varieties. However Domaine A produces high quality cabenet sauvignon, and a Tasmanian Shinas has just recently back non a major Austration wine award (Limmy Water Trophy). Major produces are Tamar Ridge, Freyeiset Josef Chrony, Numerous Australian produces have also invested heavily here - both Brown Brothen and Man + Smith in the recent times. Penfolds also sources fruit for its premium Chardonnays here - including Yattama and its Reserve Tasmania is also a najor grower and produces of sparkeling wines. Local producers such as Kreglinger, but Hardys also source much of their sparteling wice mit from Tasmania - especially Arras. Seven caps have now been almost (though not quite) universally accepted in Australia and New Zealand Given the experimental nature of new world producers, less market resistance and New Zealand (especially given widespread acceptance of alternative packaging such bag in box) and the widespread acceptance in the industry of the shottcomings of cooks (particularly offecting the wines of the earliest adaptors) it made sense for the charge to come from here

The change stemmed from ismes of random exidation and trichlowanisole cook taint being deemed a greater threat to quality perception than an effective closure with down-market connotation Clare Valley produces in South Australia were the first to take a gross unified approach, in the early 1990's. Given the day, foral style of richings produced suffered more than a Barossa reel for example, when a cook failed to fully protect a wine from oxygen ingress, the change made perfect sense The same can be said for New Zealands following on. Today very few NZ wines of any description are sold under cortz. For light avonatic Manborough Sauviguon Blanc this makes logical sense. There are still - more in Australia than NZ some registant produces who feel the tiny xygen permitted via the coole through lengthy ageing is better mited to certain wine styles Ciaconda's Rick Kinsbrumper has been vocal on the suber Pinot Noir is New Zealand's second most planted grape variety. It is perfectly suited to the country's cool climate and southerly latitude (to 45°S in Central Otago), Much provides long Slow sunny ripening conditions, and cool nights retain acidity and arong

Pinet Noir is widely grown in Marlborough. Netron, Canterbury, "though New Zealand's best are from Mairarapa (particularly Martinborough) Central Ctage. Central Otago has been particularly fashionable over the last 10 years producing ripe fuit driven first Noir in New Zealand's only continental climate in the depths of the South Island. Martinborough has a longer history producing more serious and sarouny, agenoitly examples. Key producers - Martinborough : Ata Raagi Dry River; Central Otago: Felton Road, Mt Difficulty Martborough : Framingham, Oyster Bay. Pinot Noir also used in NZ's sparkling wier. In Australia, Pinet Noir has a long history though has not always been grown in the right climates. It is widely grown - in Western Australian Great Souther, in the Hunter Valley, Adelaide Hilly. The best examples are from the Yana Valley, Mornington Peninsula an Tamania. Coder climates are the bey - thanks to attitude and some maritine influence in the Yana, and cool southern ocean and latitude Mornington and Tasmania The Australian style of Pirot Noir in generally full bodied and more red and black beny muit than is common elsewhere. Key producers are William Downie, Bass Phillip, Ciant

Describe the classification systems of St-Emilion and Cru Bourgeois. (50% weighting). Discuss the changes that have taken place in the last 10 years. (50% weighting)

Answers: 51	Passes: 13 (25%)
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The Results Panel were appalled by the quality of the majority of responses to this question given the mainstream subject matter and the fact that half the marks were awarded for simple factual recall in the form of a description of the classification systems in both areas. Given that this is taught in varying levels of detail at both levels of WSET qualifications that precede this one, these should have been easy marks, yet it was alarming to see how many were unable to describe the systems with any authority. In many instances the systems were described incorrectly, including far too many elementary errors such as locating Pomerol in St-Emilion. In addition, it was clear that the second half of the question put a number of candidates off, and many of those who answered this question ignored the second half of it completely which explains why more candidates achieved either fail or fail (unclassified) grades than any other. Many of those who did attempt the second half of the question, were unaware of recent events that were fundamental to answering this competently.

The following script was one of the few better ones.

Cleasification of the medoc. list the 270 sine rdcoms Class Bourgeois was created Boropeicos

St-Emilian's doosification system was in three levels : Grand Cry dassé and above them, Premier Grand On Casse A and B. Premier Grand On Crosse A Canists of just & properties, Onâteaux Ausone and Chaval Blanc, on attempt to adminutege the two outstanding properties of the region as the 1855 classification did or Sautemis Château d'Uquen. To avoid the historical anomatices of the 1855 classification which doesn't recognize improvement or provish declining. Standards Sh Emilia's classification would be revensed every 10 years and be based upon a tasting, a whit to the paperty and arrent. market reportation (a tricky area to judge in San ases) Cry Bourgeois was reviewed in 1978 and then again in 2003. The 2003 readien was annulled (more to Bilow) and as it presently Stands from th 2009 wintage On Courgeois is a designation of quality rather than a dessification. Open to all red when in Bookawa do International testing panel awards the Standard annually. As an indicator of quality autside the 1855 cless, Reation this appears to be working well and Incis Robinson mus described the 2009 In Borgeois on the bost value Bordonno us 1

The 2003 classification of an Doirgeois was annulled and the 20076St Emilian Clessification is amently watched pending a decision promised in 2012, While Europe agrees the systems need reviews with born promotions and relegation no producer agrees that they should be relegated. In 1855 those who were not included did not know the longerity and value of the Classication, I the modern would produent know precisely have conclude those systems are, to look your Status is to loss & thousands of ELios price and socies, prolanged and expensive litigation by excluded properties questioning the conditions of the tasting or both Chi-Bargeons and St-Emiles Lood to a difficult period where se 1 Could anateaun did not know what he or couldn't put on the labels, Cry 12rgeor appears to now settled the taske, but the rankow with excluded than re-Classified chaining to be 'treated like dogs decenter news story) when excluded the ditesing VinExpo Cry Cense dinner : A group Cano suite by chateau reconsidered dos-fication are Still the air for St-Emilian devaluing of the classification and Onling anne

In relation to wine production in South America, write a paragraph on FIVE of the following:		
a) Carmenère b) El Niño		
c) Coquimbo (Elqui and Limari Valley)		
d) Bonarda		
e) Joint Ventures		
f)	Brazil	
	Answers: 67	Passes: 26 (39%)

Unlike the previous paragraph question on Australia and New Zealand, this was not popular, answered by only 44% of candidates, most of whom did so very badly, resulting in no distinction grades and only a few merits. Many candidates only attempted two or three sections instead of five as instructed in the question, and some answered all six sections (inevitably too briefly to achieve convincing marks in any of them). In such instances, examiners are instructed to mark only five sections, not all six.

On the whole, the section on Carmenère was the best, but certainly not exceptional by any means. Responses on El Niño were surprisingly poor. Many candidates did not understand that it is a weather pattern and not just an ocean current. As the question was in relation to South America, its impact on Chile and Argentina was expected, yet many candidates wrote about California and Australia instead or as well. Many candidates opted out of the section on Coquimbo, which is surprising considering how many white wines are appearing in the market from these regions. Most of those that attempted this section, did it well. Weaker answers simply referred to general growing conditions in Chile rather than those specific to Coguimbo and there were also those who confused this with other regions further south. Bonarda was another topic that was avoided by many and was often described as a white grape. The section on joint ventures allowed some candidates to claw back some marks but very few candidates thought to explain what a joint venture is, why they are popular and what the participants gain from them. Many candidates simply mentioned foreign producers who have purchased properties in South America and were producing wine, but these were not examples of true joint ventures. The section on Brazil generated mixed results. There were those who had learnt this section of the syllabus and had some knowledge of the wine regions of Brazil, and there were those who knew very little or were simply guessing and hoping for the best.

Piemonte produces wines of great diversity from indigenous varieties. Select and describe THREE wines from different indigenous grape varieties which illustrate this statement, one of which MUST be from the Nebbiolo grape. Explain how factors in the vineyard and winery contribute to the style of these wines. (50% weighting for Nebbiolo based wine, 25% weighting for each remaining wine.)

Answers: 128

Passes: 89 (70%)

This was the second most popular question on the paper, and answered reasonably well as the pass rate shows. Most candidates were helped by the fact that 50% of the marks were easily earned on the Nebbiolo based wine, with most writing knowledgeably about Barolo. Responses relating to other grape varieties were often superficial in contrast and the weakest candidates selected wines or grapes from the wrong region or from varieties that do not exist, such as the candidate who wrote about Asti Spumanti and the "Friuli" grape variety.

The following script is a good example of one of those that was very good on Barolo. The other grapes selected were Barbera and Gavi. The former was also covered well, but the section on Gavi was weaker, resulting in this achieving a merit grade rather than distinction.

)	In & Predwarte, in North worst italy
	muy gropes are grown and preduce
	mue different wings. 3 wines i went
_	to discuss an Barolo From Netholo, ved aver
50	Barbara d'Allerfrair the Barberry Grape also red
000	6 Gavi, from the white Costese grope. 1st is
	Bardo this is the vegicus greatest
	when and are of italys top red when .
	Here in Barrolo there are 5 connes
-	Here in Dayoup there we s county
-	La Morra, Bardo, Castighie de Faletty, Sorvaluega, and
	montote. There are 2 main soil types one
-	and strong from the Hebertion epoch and my
	from the tytomium good. These soils produce
	very different wines. From the more fertile
-	
-	and la numer and Barrelo we get unes
-	that are more ferrings, flored, and approachedes
	when young from the power toos Fortie
	soils of Montote and the soundinger we
	get very wasculike, transic wines that
	Or O
	veryone more acycing holdre they becare
-	approaches. Castighter difattets is an a guige
	epur that campiles the structure of
	manforte with the construction + fland vides
	at la marrie. Here the climato is carterified
	they are at the foot wills of the Alps.
-	The contract of the track
	and Baudo Neddicio is often planted on
	I THE ALL AND A REAL AND A
	the boost south forcing slopes to ensure philostic + physiological ripeness. Neldoido regenelless

tannins this later the nine maker reeds affection to otherwise car to get balance very evsily or of out marc issues with the ripowess of Since the formins, Neldoido also must be haveled ane as it is prove to oxidication, with winemarkers now have tendency to use voto functions payting over to help with termins and oxidations issues. Barolo is a with big whe high townson, acid, and usually alwhyl, It usually of the vose, flowers and hus Alwors barriore !! evenlyptus Lan vice with ould discilite. Next Barbarra d'Atta Da and Church in Can 5 negiun preducto that with Barbera made gurges usully 13 a simpler made than 45 style whe 1 however many top Bavalo producers ave buening yields and barrigee againy By bever to its wins produce gooldgevines. good swing ane for its Garde Know high davk united a volos its . and acid It produces with finit found usues , Struchenz, and first . minerality. red cherry worly Its wines ned ale ave to red+ either nigh and lower acid tennin or depending if it Migher tamin TS tracke drink Mon style or con (Vine) age worthy webe senses 3rd wine The Style. 9401 TS this is a white ushe majon in Picdnute, The withes cine produced from the Covese grape. They have of ndt acid and flavors white tu high Aaralis, eldustineus, upples eitrus finitz 400. Mast ane temperatue contralled, when farited

grown	an	slight	slopes	of 75	aver
when	yields	an	kept in	n check	_con
	Josef				
terroivs	1 Nowever	- nost	- 3	niddle	<i>.</i> f
the		acuptober			
wine	treat				

 With reference to climate, soil, grape variety(ies), viticulture and winemaking, discuss the WHITE wines of the following regions:

 a)
 Rioja

 b)
 Rueda

 c)
 Rias Baixas

 (Each section carries equal weighting)

 Answers:
 100

 Passes:
 36 (36%)

Like so many of the questions in the January paper, this was also answered poorly by the majority of those candidates who attempted it, with only one distinction grade and 11 candidates achieving merit. In fact, the largest grade banding in this question was the fail (unclassified) one.

The high failure rate was largely because too many candidates simply described the wines, sometimes very briefly or incorrectly, and said very little to explain how the factors listed in the question come into play. This is a common feature of this type of question.

June 2012

Group A: Compulsory Question

With reference to the wines of Napa Valley and Central Valley (California), describe how geography, climate, winemaking and the marketplace influence production. (Each region carries equal weighting)

Answers: 379

Passes: 262 (69%)

This was a good result for the compulsory question, bearing in mind that it is answered by both the best and the weakest candidates. There were some extremely good responses, but also some extremely weak scripts, the worst of which achieved only 8%.

Responses were better on Napa than the Central Valley with a number of candidates confusing the latter with the Central Coast. Candidates were also weaker at writing about the marketplace in these two regions.

These two regions were selected for this question specifically because they produce wines that differ so much in terms of style and quality level. Candidates who failed to make this clear in their response and were unable to explain the reasons for the difference through reference to geography, climate winemaking and the marketplace inevitably did not do well.

Group B: 4 questions to be answered from a choice of 6

What are the factors that contribute to the diversity of wine styles produced in Germany? (An essay format is COMPULSORY for this question)

Answers: 292

Passes: 159 (54%)

This was the second most popular question on the paper, answered by 77% of candidates despite the compulsory essay format.

However, this was a disappointing result with far too many candidates simply writing everything they knew about German wine, with very little thought about what it is that defines the many styles being produced. Many presumably thought it was simply a case of describing the various Pradikät levels and mentioning soils and grape varieties. This resulted in very simplistic and rather "dated" essays on German wine with little or no acknowledgement of the many changes that have taken place in recent years, such as the increase in the amount of red wine being produced, or the

emphasis on dry wines, where the VDP is at the forefront of this revival with the introduction of new "classifications" such as Grosses Gewächs and Erstes Gewächs. Although if done well this basic approach was sometimes enough for a borderline pass, candidates needed to do significantly more for better marks.

The following script is well written, and is very good from a factual point of view. It is less convincing in terms of more recent trends which are only very briefly touched on.

Germany has traditionally produced a of Styl of wines ensures that this dwart further develop Ve oves Coming year influencing German County and which graves can be repended successfully Ahr, Millel Phie, He Mosel German where regions Sulton nenehossen are located in the norther portion of West Germa sile here is therefore Continental. For from the moderal climate bas short warm sommer follow cold winter. These autum and sen dictate He types of Grapes that will and hence the Lives Vinerardo of He marcinel climate have been Snecific micro climates exist antel in areas where The cruality, ripe 917420 geocraphy Ha ch 29 Here micro chinates. It is no accide that many of dantis in river valley, sit Moschar reneveraline Step sloping States allow the VICED vally kel rives in He survival durin He day and storin (pan) nultaine. Also se water movement helps He slaps Mountains at He back of He Uneuporti portur cold utras at these imatic Consequence geologicalitic conditions Certain vine varieties have been found to thrue, such as Kroshing and muller thurgan.

the fact that certain variabing three here has contrabuted greath to the style of when produced. Riesty is repening variely but thrives in parts of Germany as ong repening season. Different sites give shater repency periess and hence He Graps differin times with varying degrees orchas at reness repenses will decide the style of live produced dry right though the succhess raper to very the grapes are trozen thurgan was developed by the Germans to be and produce a grape with Riestings character but repening and with a high yield. Although widely plante doesn't produce whe of the grantity of Realing As such is planted and the botters of the valleys and on the muller Hurgen Rhine valley plains where it produces a lot The vally by simple frinki wine for early consumption comparison have very Stoney, State and weather grante sorts They are very infectile and force the vines to send roots deepuilt the soils to sourch for nutrients and moister the best sites such as the wextergarten site great finese and a menerality found noch wines with when produced on Hese Valleysides can dry or new sweet depending on the growing conduction each climite thus effect the repenses 64 He succhness of wine In poor years trace grapes that only just ripen will produce dry a actic wines Suchend with Suss reserve (grape juic we will depending on the producer. In battery of Sin will produce with more body and frent Can be enter dy or sweeter. Noble rot Some with allow the making of Auslese, beerenauslove or even ten Succet brochunkanny polen. These styles of vine are all permitted under the German wine laws. He splect wine made

is dependent on the weight of the wine must on the Os delive scale which basically measure the amount of Sugar in the grappe must. The best wines produced from the best siles by the best producen demand high prices. On the other hand the multir thursday and sulvaner grown on the feetile walky betterns and river plains produce simple uninsping wine such a. hebbaunden: These wires are atmed at the mass export markets where they are seen as cheap simple staughtforward wines They are generally meduum - sweet and not very exciting but account for a lasse volume of the German wire production and exped figures. The German vineyards are in European Climatic Zone A, He coldest region, except for Baden which is in the South west corner of Germany across from the Alsace region of France. This is in region B, so slidty warmer. Consequently the graps grown here can be repor producing a fuller bodied and more concentrated Style of wine from their more workful counterports. Pinot noir can be grown here Successfully, producing quite full podid concentrale wines. The geography of the curea also contributes to the directivity of styles in the area. An ethicit Volcano, the Valserstuhly has been remodelled by the German authority to preduce large terraces on the grantle / volcinic soils that provide the White with the best exposure to the Sun and poor soils to heave yield low. Traditionally many wines in Germany were produced in sweetil style. This is now changing as mon fast friendly wines are being sought after by the German papile. In this way, market trends are having an effect on the diversity it styles produced in German winneres.

3-REMANNIS geocraph ACIAZ. pe 0 openion can ptaduce recession economical

Describe the wine region of Puglia, commenting on:				
 a) Climate and soil (10% weighting) b) Grape varieties (30% weighting) c) Key styles and quality levels of wine (30% weighting) d) Recent development (30% weighting) 				
Answers: 110	Passes: 63 (57%)			

It was no surprise that this was not a popular question. It was answered well by those who had studied the breadth of the syllabus and those with knowledge of recent developments. These were the candidates that achieved a pass grade or higher, but many answers were simply too brief and too generic and there was a surprising lack of knowledge of local grape varieties with many not even mentioning the key one, Negroamaro.

The following script was excellent – perhaps written by an Italian candidate.

ight is a jour herm region. located oly. Anat Whic 10 OOM al elimote XAR. Mumm Jugar MARING and 5 mm u 10% h OM alie un DO:00 20 ∞ itous internationa Varietes line X iana ommay

* a very active one is in Countino. Pinot Gris, Trebrano. (In recercit years producer, Very common Maria a VIA Amolina indiaendus non xamo IN/ recaliva man udia dugn Contributino a almost 0 mur 10Ga r eha heeming onde TA VIMAS Tendone" ON OM the opposite aspellet not bling trained wines 010 aronita al wimer unno iment Mili Pe ment VOIA Tain ats with er men anoo Mes UMANT A mitilo //legramaro ample umple lwel v ention NO with in hernes. romas LOUPA DI MONICE MOU er MU IN sarely examples MAMM Pal me podemia. 01 Cen Ø N more erpon monues atil unifort unal obciatives ase hig production of

wines either produced by cooperatives Illite Wines NOQUPERS ciom man emany

What are the similarities of (50% weighting) and differences between (50% weighting) the Beaujolais and Mâconnais districts.

Answers: 285

Passes: 120 (42%)

This was another very disappointing result for a question on a key region - Burgundy. Generally candidates knew the basic facts relating to climate, main grapes and soil in the two regions, but were weak at pulling out the finer detail required to answer this question well. They were particularly weak in terms of viticulture, use of oak and commercial aspects with many believing the wines of the Mâconnais to be of higher quality levels than the majority of them realistically are. The following script achieved a fail grade. What there is, is correct, but it is far too short and superficial for a pass grade, being little more than an essay plan.

beaugelay and Maconnais Similarities and differences between Wme arowing. area Khin when and est rost Mupe lome grooping areas in in comparison to other to mid priced om low other wincarowing, regions in the relds Sourgoane sumption ommercial lomis most-lus red low 20 11 mm the usines ana Ussue Mi mou milaz barrel fermentation in three 1 laconnaus

In contrast, the following script is more extensive and worthy of a pass grade, although it lacks the elegance and detail of a script awarded a higher grade.

obucións similiata 600 between 08onnais distrets 10 canjolarie n and Hort Q an bott ta th de are buins 60 100 Va G 0.a 20 8 601 ø Contra Summers pole 13 ad au Woone 500 to Aw No illerge wn with N 600 Sta all S 0anal Ato erne prenum meas ſn ans as enjlerie the ner stem 8 mon recognife avens 055-00 ietto an conjani 910 potient ne 6 curd nto m 63 res nore eboel 0 an 0190 la avi Ne 0 note manner N 60 12 0 a 00 len ralits 20 potite Ś٦ agua Char 0 your tolers JOW

15 are also pleit differences UTTO White we 0 ennaus a and Kerdennary ww nen 0. ini U 0 aujolarie Thread made goto. n non None almos 6 sits 2 Jochani and et Dem C I in Nes belte onterop 160 the stery slopes Les. a one 0 ars and son clay and skyle: of test tre a Bug aspeer PULINE Cl. 14 20 Autimally 2122 Har n secuitais Montelans 1 ens af an reputation Seanylais N eles-fs 00 26 N bad integ 9 50 w ta bert eleare aconnais ener Sherth Oerru 1 Love to d 19chin Se Securoleio Dure a different. bein thod inen auch me al rne 10 10 white CI methe eaulolais ar 00 itt n oclumety u plant and a hordonne Jable bh unsu 0

Write a paragraph on FIVE of the following:		
 a) Columbia Valley b) Paarl c) Margaret River d) Martinborough e) Rio Negro f) Uruguay. 		
Answers: 211	Passes: 109 (52%)	

The breakdown of marks for this question showed that it was answered both by those who really knew the subject (with a top mark of 84%) and those who only knew a little about some of the sections (a bottom mark of 16%). The danger of the five part paragraph style question is that there is nowhere to hide if the candidate is unable to answer all five sections or if more than one section is weak. With all five parts carrying equal weighting, it only takes two weak sections for the candidate to be at a real disadvantage and likely to fail.

Although the question did not volunteer this information, most candidates were aware that these were all wine producing regions and structured their answer accordingly. A good approach in all six sections would have been to consider the characteristics of each region, such as climate, soil, grape varieties, viticulture, winemaking.

The section on Columbia Valley was answered well on the whole, although some candidates mistakenly placed it in Canada or Chile. Answers on Paarl were poor for such a significant wine region of South Africa. Most responses were very basic, with many candidates discussing ocean influence and maritime climate and listing grape varieties as Sauvignon Blanc and Pinot Noir. However, as this is a hotter, inland region, styles and varieties needed to match the climate and very few candidates did this. When it came to Margaret River, there was some confusion with Coonawarra and some references to South Australia and South East Australia. A number of candidates mentioned "cool climate" which is an oversimplification since Cabernet Sauvignon is grown with great success here. Many thought it is on the same latitude as Bordeaux and frequently the wrong ocean was cited. Martinborough was answered well on the whole, although there was some confusion with other regions with reference to "South Island", "hot inland climate" and "Gimblett Gravels". Quite often there was no reference to Pinot Noir with candidates simply writing about Sauvignon Blanc. Rio Negro clearly highlighted those candidates who had studied the full breadth of the Unit 3 syllabus. These were the ones who scored high marks in this section. Others often thought it was a region in Brazil or Chile, and some clearly clutching at straws wrote that it is a river. Responses on Uruguay were surprisingly good, with most showing a basic understanding of the country, location and climate. Tannat certainly needed to be mentioned, and was by most candidates. What is the role of blending in the production of the following:

- a) Large volume branded Australian Chardonnay
- b) Sauternes 1er Cru Classé Grands Vins
- c) Red Rioja Gran Reserva

Answers: 285

Passes: 138 (48%)

Along with the question on Mâconnais/Beaujolais, this was the third most popular question on the paper, answered by 75% of candidates. There were lots of very uninspiring scripts with some extremely weak responses, the worst achieving only 7%. Most candidates simply wrote everything they knew about the wines rather than focussing on the issues relating to blending. Many only considered the issue of blending of grape varieties rather than expanding their responses to include many of the other components of the blending process and only the best candidates made any attempt to link these components to the effect that they have on the wines produced. Far too often candidates simply described the wines rather than discussed them and this means that answers were superficial and missed many key points.

The following script is an example of one such candidate, who achieved a fail (unclassified) grade.

volume branded Australian castin

iternes les cru Classé Grand Vins 1 an Evan ACANO nual

This candidate has not made a single reference to blending in terms of the Rioja. In contrast, the following candidate has written considerably more, resulting in very good responses on the Australian Chardonnay and the Sauternes, although the section on Rioja is weaker. This was a common trend in most scripts, and there was even one candidate who simply stated that red Rioja Gran Reserva is not blended, although it is hard to understand why they think we would bother to ask the question if this were the case.

The role of blending is to increase complexity of a nine, to gain balance or to use the most possible a crop of graypes 9) The main purpose of blending in volume Grandes chardonnay is to give a consistently Anstralian quality of the mpe & every intage is produced. An important mike fine the reduce a brand buying to aspect 15 1 what 6 buy a brand you you know you or less and more then expect NU blendition when get. By what consistency in style may brand be made ,hAo achiened Grapes can denred and complexity give Style to Wine including from order negaras preshness for Grapes for richne. aren warmer Groups from grapes for sneetness and added Over - ripe complexity and an "easy to like" style grapes for freshes and under npe Some complexity Wihe has gone Chat through molo lactiz fermentation for creaminess some usine that has been on less d USe creamines! even more mhe that has been aged in use of oak chips for added or wood competenty and spriciness

when from lower yielding step -Use of even conceriand or meight and for grape must concentration 57 USE high yielding plant a Lightness whe in _ components HU the are desired blended frm when sourcing different laces whe 60 the same eren a nhtage can particularly, . Chrough this hot n cold 11 constant. price and hept style 62 can b) The role of blending in a Sautemen 1ere cra chaste Grands M to get concentrated , complex, dense and sneet fully balanced through the yet mhe, nght level acidity and an dland to 01 Cru 1ere it. Classe grand match A sauteme is not nescellanly made the from Untage - only in those when the n. every grupes condition neather make the in nected vAil 60 concentrates the juices sufficiently. The get to ing a 15 , creetnes and ness m ded botrutis. A can Ge. 6len whe Gassi of: Usually three white groupes different ny propertions different be used in Saungnon Plance for an aromatic Style, Semillon acidity muscadello and add 6 ad mether and John nU Saunanon proportion higher 0) armotic th our mol as whe expensive the through Several tries different

needs to be made to pick only the neyard most botry tis affected grapes. The more tries that. the nove concentrated made and complex are finished whe be But will the as it manual labour with grapes picked all bern at the time for each over one bune also drives the nine cost the 0) wp. needs to decide the right level producer many tries he can botytis and how do and if it corresponds to the mice he will be able to Obtain for hir min These ir also a choice wether to put all parts of the mine in or only oal Unally new french oak mll 60 chosen, but oal may also ald (se use usually a separate Nhiplation - There 15 grope, SU the cellar marinke master different the mu reed to Gent muscadelle and causignon based ano mhes now much heeds & chese 6Arytis the amin and have when blending should \$ une blunding one meaper and me rather maleha cure 9 or only top one the also Haere" is china relese the mana when it is more Invity 70 ature it wether -60 07 further more expensively and inhtane

- A mike with a high content of octrypi affected proper will be more concentraded. more complex and higher in glycord. It will be longer laseng and more impristive Gut also the most expensive. - It is an equally important decision Ich around on classe chateau to devide not to make a whappe out it is the other way as a bad intage can destroy a reputation of high quality Pioja Gran Reserva the aim c) For red blending is in a way between the the others. To are a certain point a Ricia Producer like for instance will want the house style Bodegos Muga to be recognizable at the same time as there is a point in showing vintage mhe will only be made in typicity. The best intages maybe only 3 nhtages the decade mithin a will usually be used as the -Tempramillo main component of the whe to fuit and body - Repar Garnatche will be used to colour and body os well sweetness ø the mho 60 - Chron Mazueho will be used to give Structure, colour and acidity be a strict selection of - there will grapos where the best grapes are put who while the Cesser_ grand Harra the reserva. mill go thto

maturation development cep 4 and control gropes nill an 60 nh ate blending nu Ih be hew mo n 00 m Bresse an tranco an duit ance M hull Wh mercar Some matures be gin cucenerr oa aronon £h th 200 mll inher th 190 IA con ne gres ated more arp 1 0 tin in form une 95 2 pno 7 6e to Obtain wh nul blen 0 endure audite enturen 60 only ad Sp1 6e when lease n m tain RI bu mas cer anno 4 a ta Ketena

With reference to France, write a paragraph on FIVE of the following:

a) Viognier
b) Muscadet Sur Lie
c) Mourvèdre
d) Jurançon
e) Guigal
f) Bourgueil

Answers: 333
Passes: 93 (28%)

This was the most popular question on the paper, answered by 88% of candidates. However, although on the surface a paragraph question on France may have appeared to be the easy option for candidates who only studied the mainstream parts of the syllabus, this was really not as straight forward as it appeared, with "tricky" sections such as Jurançon and others that showed up significant gaps in candidates' knowledge, for example Guigal and Bourgueil. Even easy sections such as Muscadet Sur Lie were often answered in very basic terms, frequently just a description of the wine and a superficial statement that it is "aged on the lees". Like the compulsory question, this was clearly answered by a large number of the weaker candidates, but in this instance they were unable to come up with the hard facts that these paragraph questions require for a pass grade.

As a result, the pass rate for this question was a complete shock for the Diploma Results Panel, who were alarmed at the lack of knowledge in some of the sections of this question. The following candidate not only answered one section in a single sentence rather than a paragraph, but also managed to include the largest number of errors in the fewest number of words:

"Jurançon is a dry red wine from the Jura mountains in the North of France."

Unit 4, Spirits of the World

The examination for Units 4, 5 and 6 requires good all round knowledge on the part of the candidate for them to do really well, as the tasting and theory paper carries equal weighting. However, the paragraph format of the theory question still allows those who give good responses in two sections (but may be weak in a third) to pass the paper as a whole, providing their tasting paper achieves high marks.

The approach to this question is no different to that for paragraph questions in the Unit 3 examination, you should aim to get as many facts down as possible. Nevertheless, it is still important to make sure that what is written relates specifically to the question as set. For example, if asked about the production of a particular style of spirit, there is no point describing at length the basic principles of distillation that apply to <u>any</u> style of spirit. This is something examiners comment on time and again.

In terms of the tasting question, there is evidence to suggest that some candidates do not add water to their samples when assessing them. This is foolish, as they inevitably "blast" their taste buds to the point that they are unable to assess the samples properly.

The examination for Unit 4 was run on three separate occasions in the academic year 2011/12, in November, March and June. The overall pass rate for the unit as a whole for all these dates combined was 67%

The questions and individual pass rates for each of the three examination dates were as follows:

November 2011

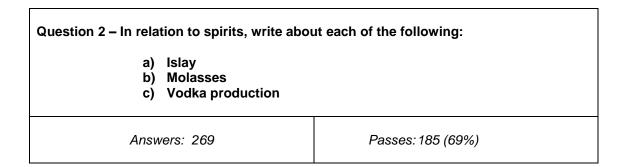
Question 1 – El Jimador Reposado Tequila, Calvados Roger Groult 3 years old,	
Courvoisier VSOP	

Answers: 268

Passes: 212 (79%)

Results for this question were extremely good with 20% of candidates achieving a distinction grade.

The concluding sections of this question focussed on the ageing of these three spirits, asking candidates to describe how this influences the style of the spirit. Some candidates ignored this and simply wrote the information set out in the concluding sections of the Systematic Approach to Tasting Technique, commenting on readiness for drinking, quality and what the spirit was. They lost marks as a result.



This was a good pass rate, with a good number of merit and distinction grades.

Candidates generally scored good marks in the section on molasses, but the section on Islay tended to polarise candidates with some excellent responses (possibly from Malt Whisky enthusiasts), whilst others struggled to know what to include in their answer. Some candidates answered this section without making any reference to peat at all. There was inevitably plenty of irrelevant information in some responses, for example from the candidates who wrote about the distillation process for Whisky production rather than focussing on information relating to Islay itself.

March 2012

Question 1 – Absolut Vodka, Wray & Nephew White Overproof Rum, Grappa di Moscato Giallo	
Answers: 153	Passes: 97 (63%)

There was some evidence of guesswork with these three clear spirits, with some candidates appearing to allocate identities at random. As a result, there were some very illogical and unconvincing deductions such as identifying the Vodka as Gin and the Rum as a fruit spirit made from cherries or pears. The Grappa also proved tricky for many, but this was perhaps more understandable. It was often mistaken for Tequila. The use of the Moscato grape was actually very evident on this spirit, with plenty of perfumed and fruity character – orange, tangerine, apricot, grape, rose, lilac, lavender, camomile were just a few of those noted.

There were the inevitable problems caused by those who did not follow the Systematic Approach for Spirits. This differs considerably from that used for assessing wine, and this is an easy way to lose unnecessary marks. Some candidates also pay no attention at all to the wording of the question, and instead just work their way through the various headings at the end of the Systematic Approach.

Question 2 – In relation to spirits, write about each of the following:

- a) Cognac grape varieties
- b) Marketing of premium gins
- c) Maturation and blending of Scotch malt whisky

Answers: 153

Passes: 94 (61%)

Although the pass rate for this was reasonably good, there were inevitably problems with many of the scripts submitted. This was usually down to the inclusion of irrelevant information or straying too far from the question that had been set.

For example, in section c) the examiner is only interested in information relating to MATURATION and BLENDING, so it is pointless writing about the distillation process. There were similar problem with the section on the marketing of premium gins. Often, this amounted to no more than a list of gins and their attributes rather than discussion of the marketing strategies behind these products.

Good candidates identified premium gin as a relatively recent phenomenon, and discussed the need to establish a point of difference from lesser brands since, with the exception of some Dutch Gins, gins cannot command a premium on the basis of ageing. Some examples of marketing strategies mentioned by good candidates included:

- Stylish packaging designed to look good on the back bar.
- The correct pricing strategy based on the assumption that "if it's expensive, it must be good".
- Establishing a USP, e.g. type of still used in production, use of unusual or exotic botanicals etc.
- Innovation in production such as limited editions or small batch products that generate "desirability".
- Targeting provenance, e.g. Hendricks and Scotland, or even more specifically The Botanist which uses botanicals from Islay.
- Targeting markets where consumers have high disposable income.
- Linking the product to aspirational, sophisticated lifestyle.
- Using celebrity endorsement, particularly at events featured in "lifestyle" magazines and gossip columns.
- Establishing a link to the current fashion for cocktails.

These are just some of the ideas that were discussed by the better candidates.

The other two sections on this question posed fewer problems and generated some very good responses, such as the two below from candidates who both achieved distinction grades in this paper:

Section a)

Section c)

blending of Sected malt whisky is The 1 xts maturakan and and gives it its unique chesacter from other spirits 2 That The colourlen spirit been of becoming a Vodka roste 00 doi The point that takes it co hister is matured a minimum oal 00 usua cas That previously e 1533 some dish Cas Lagnac cashs. cash agling 601 Oakaveus product es interact tani areah. NO Urs Varilla an contro na rolow add ne A richer, deales 10 CRAN 11, the does come a 1. she 10 10 MNICA thas seed. YEED min Da then 10AB Compayes agar Wirth erceeds year is Cannon m. on mar Noaw seri Tor 9 p.m.d d Tras

conferents as The

June 2012

Question 1 – Maker's Mark Bourbon, Jameson Irish Whiskey, Highland Park 12 year old Single Malt

Answers: 176

Passes: 130 (74%)

This was a very good set of results. However, some candidates lost unnecessary marks because they did not read the question at the top of the paper. This is a common problem and one that is totally avoidable and unnecessary. Candidates were told that all three samples were whiskies/whiskeys. In addition to the description of each sample, candidates were required to identify the country of origin, the style within the category and give an assessment of quality. Although most candidates picked up the peat on the Malt Whisky and identified this as such, those who did not read the question obviously came unstuck in these concluding sections. Incorrect identifications ranged from the understandable (Cognac, Armagnac) to the downright bizarre (Gin). Some of those who had read the question, assumed "whiskies/whiskeys" could only mean Scotland.

The following candidate achieved high marks. The descriptions are good, only losing a few marks here and there. All three spirits have been identified correctly and the assessment of quality makes some good observations.

SPIRIT No 1 Appearance: (3 marks) Clear, med amber, showing legs. Nose: (7 marks) Clean. Med interinty of caranel, burd sugar, varilla, oak, toffee . cocomit A Matured'. After adding water, more nuttiness is shown. Palate: (10 marks) Dry, med intensity on palate with similar notes as on none. Caranel, burnt sugar, oak, smoke, cinnamon, not nutneg, clove, spices. med body, more warming alcohol, med length. There is a balance of flavours, together with med length in finish to offer a good balance Country of origin: (1 mark) Unifed States Style within the category: (1 mark) Bourbon This a is a good "quality spirit showing complex aromas that are Assessment of quality: (3 ma reflected similarily in its flavours. There is a good balance in flavours with body weight and alcohol, slightly warming alcohol prevents it to become very & good quality.

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SPIRIT No 2 Appearance: (3 marks) Clear, med(-) copper, showing legs, Nose: (7 marks) Clean. Med (-) intensity on nove, with notes of apple, floral, cereal, grains ethanol, slight citrus, a bit of vanilla. Matured After adding water, more fresh frints and apple character is showing. Palate: (10 marks) Pry. Med intensity on palate with flavours of smoke, floral, careal, touch of ethanol-y quality, a bit of vanilla and oak on finish. Med () body, alcohol is slightly warming. Med () flength. Might heat on finish, otherwise finishes clean with subdued floral & citrus notes. Country of origin: (1 mark) (reland Style within the category: (1 mark) . (rish whickey Assessment of quality: (3 marks) This is an acceptable gaality spirit. Tinish is clean but aromas & flavours are lacking complexity & intensity. Finish is alightly hot. It is a clean simple spirit that is suitable in mixing & cocktails as it doesn't interfere with aggresive flavour profile

SPIRIT No 3 Appearance: (3 marks) Clear, med (-) copper, showing legs. Nose: (7 marks) Clean. Med (+) intensily on nose with notes of smoke, past, seaweed, rodine, Matured. After adding water, smoke and peat character remain prominent, notes remain similar. Pry - Med (+) intensity. Flavours include peat, citous peel, floral, seaweed, smoke, grainy savory quality. Alcohol integrated. Med body of with a med (+) for length. Finishes clean and balanced. Palate: (10 marks) Scotland Country of origin: (1 mark) Style within the category: (1 mark) Single malt which y Assessment of quality: (3 marks) This is a very good spirit. It is balanced, with good intensity on both nose & palete. Alcohol is nicely balanced with a med (+) length lingering with flavours of smoke, peal & floral.

Question 2 – In relation to spirits, write about each of the following:

- a) Parts of a pot still
- b) Fruit spirits not made from grapes or apples
- c) Marc

Answers: 176

Passes: 78 (44%)

There were a number of reasons for low marks in this question. Descriptions of the parts of a pot still were surprisingly poor for such a fundamental subject. Many candidates included diagrams, in some instances this was all that was submitted with no explanation of what the various parts did, how they worked or what effect they had on the spirit that was produced. Diagrams are certainly helpful in getting information across, but will never suffice on their own. The best responses were on section b) relating to fruit spirits, but even here there were glaring errors such as categorising Tequila as a fruit spirit. The weakest responses were on Marc, with many candidates failing to make the connection that this is a brandy made from pomace. Therefore a generic pomace brandy description would have generated the basic facts required for a pass, with better marks awarded where candidates included information specific to Marc.

It is clear in all examinations that there are some candidates who are capable of passing this examination but simply did not do enough revision, or concentrated on the wrong parts of the syllabus. There are also those who clearly should not be doing this qualification at all. The following script is one such candidate, whilst the next is an example of the candidate who has realised their failure is of their own making.

Example of candidate who has clearly underestimated the level of this qualification. This was the sum total of this candidate's submission:

stil mal () Marc

Not only is this disastrously brief and superficial, it also manages to contain nothing of any relevance in section b).

Still The discontinues (a) Uit-11 CL pot which DAULIELD 10 Datch radiv 10 DADD award Victurio ar inst stal 1111 luis NILION 04 N CU LOV. CONTOLO WORD NA CAVE iO: Still the Lans Chan Ourn) NONAIN 11e diran-6 (dand c alvado Van Da CNO koclor e), hock [OPDD] CMO musician d Dates wade this 'UN know this coal horec EVEN čt. inci have Galler . .

Example of a candidate who recognises their shortfall and does so with a sense of humour!

Unfortunately the final paragraph of this has not reproduced very clearly. It reads as follows:

"I know this is basic and I should know this but I was revising everything apart from the basics! Ask me about Pisco or Tequila! I even drew and practiced all types of column stills.

See you on the resit (drawing of an "unsmiley" face). Gutted."

Unit 5, Sparkling Wines

The examination for Unit 5 was run on three separate occasions in the academic year 2011/12, in November, March and June. The overall pass rate for the unit as a whole for all these dates combined was 75%.

The questions and individual pass rates for each of the three examination dates were as follows:

November 2011

Question 1 – Segura Viudas Brut Rosado Ca NV, Anna de Codorníu Cava NV	ava NV, Segura Viudas Brut Reserva Cava
Answers: 158	Passes: 115 (73%)

Of the three smaller units, it is the sparkling wine unit that tends to generate the best results, and this was no exception.

The focus on this paper was the candidates' ability to assess the quality of three different Cavas. A number of candidates failed to read the instructions at the top of the examination paper that told them that these three wines were all from the same country. Since candidates were not required to identify the wines, this tended to make little difference to their result provided the quality assessment was well argued and the descriptions themselves were reasonably accurate.

Question 2 – In relation to sparkling wine, write about each of the following:			
a) Loire Valley b) Traditional method Rosé c) Sekt			
	Answers: 158	Passes: 110 (70%)	

As with the results for the tasting question, this was also a very good pass rate. Low marks were often the result of candidates not paying enough attention to the specific wording of the question. For example, there was no point in simply describing the "traditional method" of Champagne production when examiners were looking for an explanation of how this differs in the case of the production of rosé. Many only considered rosé in the context of Champagne. The examiner was expecting some discussion of Cava and Cremant at the very least. Similarly, some candidates strayed from the syllabus in respect of the Loire Valley, including information relating to still wines produced in the Loire. Those who restricted their answer to sparkling wine often failed to consider all the sparkling wines produced and therefore missed

out many other important facts such as explaining how production of the various wines differs or is affected by other factors such as climate and soil.

March 2012

 Question 1 – Conde de Caralt Brut Rosado Cava, Jack Rabbit Sparkling White

 Zinfandel, Champagne Henri Chauvet Rosé

 Answers: 263
 Passes: 197 (75%)

This was a very high pass rate with a good spread of results across the three pass grades. Clearly the emphasis here was on quality, with three rosé wines with very different price tags.

It was in the assessment of quality that most candidates lost marks as it is clear that many still do not understand what it is that defines "quality" such as complexity, length, balance, concentration etc. Instead many candidates write about the "drinkability" of the wine, or the method of production. The following extracts from candidates' papers illustrate this point:

"definitely not traditional method, induced CO2, will not age, meant for immediate consumption"

"very good wine that can be enjoyed right now but will definitely improve with more ageing, drink now – 2020"

"good quality, aged sur pointe \$50"

With the requirement to describe the colour of three different rosé wines, there was quite a lot of inaccuracy and vagueness. The colours for rosé wine given in the WSET Systematic Approach were perfectly adequate for describing these wines. However, many candidates managed to confuse the issue considerably as the following excerpts show:

"colour is red, pink, amber"

"a bright strawberry colour"

"apricot-peach hue in the core"

"med (-) intense pale ruby (slight garnet)"

This last example is particularly vague, not only in terms of the colour, but also the intensity.

The following two scripts show a good contrast between a fail grade, where the tasting notes are short, superficial, not particularly accurate and presented in the form

of "bullet points" and a merit grade where the candidate has achieved good marks on the provenance of the wines and the assessment of quality but lost some marks on the structure of the wines due to inaccuracy.

Fail grade script:

WINE No 1 Appearance: (3.marks) Condition (2) Nose: (7 marks) cuan medurint millingi Palate: (10 marks) SINUN - med voursnus, Stan brins, quite Spicy notis on the finishing medium (will balamed) Country and marks) INIH Assessment of quality: and and

Merit grade script:

WINE No 1 Appearance: (3 marks) Clean + Spant, meduin 6+) intensity of color which is salmon colowed; small, slasting parsistant busites, legs Nose: (7 marks) Clean, medium (1) witconstry, aromas of Shawtony lemon with a notice, carolosard note, lighty citic some redamant a little bisinity some automin' development Palate: (10 marks) Edus, medium aciditing & a delicate marsoe, medium level of alich & and a medium (+) (order medium & mounty of lanow, and a medium + leven Manars of Shawlong & red prit Still present on palate Sharpor citris ustes the stapparent tout Gariti & nunerally Country and region of origin: (2 marks) Spani Catalunya of quality: (3 marks Rood A fresh Knity sparklingtune with good within Manon even if the panners are not overly complex balance of acidity with alcoust although a s 9 sharp huish good kerlight.

Fail grade script:

WINE No 2 Appearance: (3 marks) Condition - Clar pmk medum + mousse: buldel Nose: (7 marks) allow within ity - medium + chinis, stansburis, Heral (mehros Palate: (10 marks) SWALTATOS - Off dry acidity - medium + alcohol - medhim - (balamed) sody - medhim durloped - o (mnit improve) ingth - mednim Poget - wightin Country and region of origin: (2 marks Assessment of quality: (3 marks) gual

Merit grade script:

WINE No 2 Appearance: (3 marks) Clean + bight, medium color nitanti of a purk colon small persistant (medium parsi Shame) futues legis Nose: (7 marks) Clean, meching (s) internety fresh bight Shertoch anones raptings apple with some redown, blankfitter alabationes come propriorition auct cities, Palate: (10 marks) Medium sweet, medium acidih, and a creaning mosse, medium level of alichol, and a medum tody medium intervily of lavor and a mediui length. Stighty sygam, anjected ann of shortert + pearetings, Shawton 11, 12 pton, 40the anythic drama dow on palate Country and region of origin: (2 marks) Mushralia, greatnirons Assessment of quality topset Acceptable, an average converse spankluguine within to great deal of but a batame of lann with body tali

Fail grade script:

WINE No 3 condition - clear Appearance: (3 marks) Colou phin bub tawt man Nose: (7 marks) clean Mating: Hg -> rea MOUR Palate: (10 marks) Sweetnes menum 7 acidity. reduction body standomies vite bready flanours ciner diveloped length - midum I Country and region of origin: (2 marks), Assessment of quality: (3 marks) I could kup longer ood

Merit grade script:

WINE No 3 Appearance: (3 marks) Cleave bight, medium (-) color mitanily, salmon. small, persistant (medium genoistance) bittles & legs Nose: (7 marks) Clean pronumed interviti, red first annes of raption Citros lemon, years his a regetal character. a suche, allogic dranactor , evidence o develo Palate: (10 marks) man high addity, creamy movsoe, medium alushol + on Medium body long length, pronomical intervity of 652 toat & year Kt Suttinha red puit character of rasta Mawtan + redavior + lenin, creany dam Country and region of origin: (2 marks) Nance Manoa Assessment of quality: (3 marks) Van good, degant and to picel of its Skyle, when acid, K talame and a dear TUIGUE mm layers reardar anna

 Question 2 – In relation to sparkling wine, write about each of the following:

 a) Transfer method

 b) Prosecco

 c) Vintage Champagne

 Answers: 264
 Passes: 187 (71%)

This was a good pass rate with most candidates able to cover the most important facts, particularly in sections a) and b). Responses were weaker on vintage Champagne, with many only able to come up with the most basic principles of "grapes from a single vintage" and "36 months ageing". Those who achieved higher marks in this section showed a better understanding of the effects of autolysis and did more to differentiate between this wine and NV Champagne.

The following candidate gave excellent responses in all three sections.

Za)	THE TRANSFER METHOD RELIES ON & SECOND FERMENTATION
	OF BASE WINES BLENDED TO GETHER AND FORMENTED IN
	BOTTLE BEFORE BEING MOVED TO TANK DEFIRE RIDDLING
	THE PROCESS IS AS FOLLOWS : ONCE A CUVEE OF
	BASE WINES HAS BEEN BLENDER , THE WINE WILL UNDERGO
e ^r	SELOND FERNENTATION IN GOTTLE TURGLEN THE PORITION
2	OF LIQUEUR DE TIRAGE (SUGAR , YEAST AND ROBLING
	ANDATE). THE YEAST WILL BE CALTIVATED TO WORK IN
	AN ACIDIC AND ALCOHOLIC MEDING THAT CAN ALSO
E.	FLOCCULATE EASILY (e.g. PREMIER CUVEE). THE AMOUNT
	of sugar pored will be proved zog/L To resouch
	upprox. 5 ATMONPHORES OF. CO2 PEED-WEE W BOTTLE.
	BAOBLING DISENT- WILL WOUDE TONNING TO BED FIET
	SELOND FORMONTATION 12 COMPLETER IN COTTLE
0.000	DVER 6-8 WEEKS UPMALLY AT LOW TEMP (eg. 12 C).
	AGEING ON THE LEES , PERENDING ON REGIONAL
	WINE LOW AND JOK STYLE, MAY THEN FOLLOW.
	THERE IS NO NOOP FOR ELEPLING BELAUSE,
	WHEN DESKED, THE GNTENTS OF THE BETTLE WILL
	BE TRANFFORCED TO A PRESURIZED TANK. IN TANK
	THE PEAD YEADT IN THEN FILTERED OUT AND THE WINE
	WILL THEN BE BOTTLOD (STILL AT 5 ATMOSPHERED
3	OF RESSURE) WITH A COUNTER - PRESSURE FILLER.
	BEFORE THIS, MOWEVER, THE WINE WILL RECEIVE POSARE
2005	IN TANK TO THE DESIRED LEVEL AND WIE GRATION
	of DOJAGE IS WYALLY CONPLETED BEFORE SOTTLING.
, î	
	IN CHAMPLIQUE, IS WED IN CHAMPAGNE FOR SPLITS
3	
	AND FOR BOTTLE PORMATO LORGER THAN MAGNING -

2-)	- SO FOR METHUSELAN THROUGH TO NEOUCHADNELTUR.
	THE RANSFOR METHOD IF ALSO FAVOURED IN MANY NON
	WORLD OUNTRIES - R.J. 80%. OF DUSTRALIAN SPARELING
	13 TRANSFOR - AS IT U MORE GOT EFFECTIVE BY
	ELIMINATING REMUNES AND THE NEB BE MECHASHI
	EXPANSIVE GYROPALLETTE WHILE DEG BETOND THE REACH
	OF 2 MALL WINDRIES.
	THE OTHER OBVIOUS POVANTAGE WITH TEANSFER
	13 JEW NO FORMENTATION IN BOTTLE COMPLEXITY.
-	WINES MAY BE LABELLED "BOTTLE-FORMENTED' RATHER
	THAN 'PORMENTED IN THIS OFTIE'
25	PROSECCO , UNTIL RECENTLY , MAS BEEN THE NAME OF
1	A CRAPE VARIETY REPPONSIBLE PR. THE FRANKLING.
- 14 14	WINES OF THE PROSECCO POLS . ONTSIDE OF THE
	PROJECCO POC, HOWEVER, THE GRAPE MUST NOW BE
+	CALLED GLEVER' PROSECLO THEREFORE IS A PERMITTED
	VARIETY ~ ALONG WITH VERDISO - SED IN THE SPARELING
	WINES OF THE PROJECCO POL AS WELL AS FROM 2009
	CONEGLIAND - VALOBBILDENE POLE AND FROM 200,
	CONEGLIAND -VA-POBBIADENE PROSECO JUPERISKE DOCK.
	MOST PEOSECCO IS GROWN ON STEEP SLOPED IN
	THE VENETO , WITH THE DOC LENTRED ON TREVISO.
	THERE ARE VARIOUS TRELLIS - SYSTEMS WITH HAND -HARDSTING
	PREFERCED, MOST PEOSECCO GRAPES 40 INTO SPARKULAS
	WINE PEODUCTION FOLLOWING TANK METHOD, ANTHONS SH
	SME BOTTLE-FORNOVIOD EXAMPLE BUST (eg. COLDESALKI)
10 E.	MOTT PROJECCO IN MODE IN BULK AND TANK METHOD
	JUITS PRESERVATION OF ITS PEAR AND FLORAL AROMAS.
	POTAGE FOLLOWS EL GUIDELINES AND MUCH POSEGO
	13 BENT, EXTRA SEC DE SEC.
	ONE IMPORTANT DUB-ZONG FOR REGYING (ROSED
	is CARTIZZE (only 106 ha). CARTIZZE SUPPERDEE

26)	IS A POLY MOSTED WINE WHICH IS OFTEN SEL
CONTINUED	IN STYLE . THE NEW "RIVE" PESIGNATION REQUIRES
2	THAT THE COMMUNE IS IDENTIFIED ON THE LABEL.
+:	THE OVERALL PROJECCO REFION HAD ADOUT 15
	COMMUNES OVER 20,000 has Extransion in
3	PRODUCTION IS NOTABLE WITH 60.8 MILLION BOTED
	of resting provide IN 2011 . HEATE PESTECID
	PRODUCTION HAS GROWN BY 40% FROM 2004-2011
	PIONEDERO BY BISOL AND MONETTO, PROJEND MAY
P.	ALSO BE EELEADED IN ETTHER FRIZZANTE OR
	SPUMANTE PRESSURED (STYLES
2 . c)	VINTAGE CHAMPAGNE INDICATES & CHAMPAGNE MADE
	ONLY IN A SPECIFIC VINTAGE YEAR. TYPICALLY,
	OWING TO CHAMPAGNE'S MARGINAL CLIMATE, MOST
	PRODUCERS WILL NOT RELEASE A VINTAGE WINE BERY
	YEAR. RECENT STRENG VINTAGED IN CLUDE 2004,
	2002, 1999, 1998 AND 1996 BUT YEARS SUCH AS
	ZOOB AND 2009 HAVE BEEN GNTHOVERSIAL YEARS IN
	WHICH TO MAKE VINTAGE CHAMPAGNE SWING TO EXTREME
	WEATHER (eg. WARMER TEMPERATURES).
	VINTAGE CHAMPAGNE MULT BE AGED FOR A
	MINIMUM OF THREE YEARD BEFORE RELEASE MY MANT
	WINES WILL THE SPEND LONGER ON THE LEED OR
	IN BOTTLE DETRE OF GORGEMENT BEFORE RELEASE
	MANY PRESTIGE LOVEES ARE VINTAGE CHAMPAONES
-	BY OBFINITION, FOR EXAMPLE: POL ROPOR'S CURE
2 A	SIR WINSTON CRURCHUL, LVMH'S LA GRANDE
	PAME + DOT YERIGNON WHICH DEE VINTAGE WINED

		1		A.A.	2 16	INTA I	- Go	2 0	ere	7
	CON					NILOL				
1.60										
DR.	v.,	TAGE	Cn.	and al	INE	E	P. P	RESTI	GE_	UVEE
GRA	E	PUT	m	Ay 6	ins	BE	DIN	41E	VDA	aet,
MO		SINGL	e VII	VEYN	2	e.g.	ICA	4413	a	03
				101	/	-				
520M	2	- 60		nnea	ONNP	17	'RO	> 15	AN	15
	THE THE VINT, GRA MD DE TE	The cath The cath (The cath (The cath (The cath VINTASE GRAP GRAP DE MES Stan 2	THE LATEOR THE LATEOR (THE QUI 3.3) VINTASE CHI GRAPE PUT MO SINGLO DE MEJNIL FRAM Z HO	The WINTAGE (NA THE LATEOR ACCO (THE RUI JOLAN VINTAGE CHAMPA GRAPE PUT MA MAD SINGLE VII DE MEJNIC , O FRAM Z HA	THE LATEOR ACCOUNTE (THE RUISDIAN CHAI VINTASE CHAMPAGNED GRAPE PUT MAY MAD SINGLE VINEY A DE MEDNIC, ONLY FRAM Z HA CHARA	THE LATEOR ACCOUNTED & THE LATEOR ACCOUNTED & (THE RUISDIAN CHAMPAGE VINTAGE CHAMPAGNED ME GRAVE PUT MAY AUD MO SINGLE VINEYARD, DE MEDNIL, ONLY MA FRAM Z HA CHARDONNE	THE LATEOR ALLOUNTED FOR THE LATEOR ALLOUNTED FOR (THE RUISDIAN CHAMPASTIC VINTAGE CHAMPASTED ME OF GRAPE PUT MAY ALD BE AND SINGLE VINEYARD, R.G. DE MEDNIL, ONLY MADE IN FRAM Z HA CHARDONNAY.	THE LATEBR ACCOUNTED FOR 16-2 THE LATEBR ACCOUNTED FOR 16-2 (THE RUISDIAN CHAMPAINE MARI VINTASE CHAMPAGNED ME OFTEN (GRAVE PUT MAY AUD BE DIN MAD SINGLE VINEY AUD BE DIN MD SINGLE VINEY AUD BE DIN E MEDNIC, ONLY MADE IN CE FRAM Z HA CHARDONNAY, 'RO	THE LATEOR ACLOUNTED FOR 16-87, THE LATEOR ACLOUNTED FOR 16-87, (THE QUI SOLAN CHAMPASTIC MARKET VINTASE CHAMPAGNED ME OFTEN GLENE GRAVE PUT MAY AUSO BE DINGLE MAY AUSO BE DINGLE MAY SUBJER , E.G., ICCUR'S DE MEDNIC , ON LY MADE IN CONTAIN FRAM Z HA CHARDONNAY, 'RO' ID	SUDJA 13 NOW AGAIN A JIGNIFICANT MAR SOR VINTAGE (NAMAGNE EJP. PRELTIGE INE LATEOR ACLOUNTED FOR 16-87, OF (THE RUIJOIAN CHAMPAGNE MARKET IN VINTAGE CHAMPAGNED ME OFTEN BLENDD GRAVE PUT MAY AUDO BE DINGLE VAR MOD SINGLE VINEYARD, R.G. ICRUG'S CL DE MEDNIC, ONLY MADE IN CORTAIN YE FRAM Z HA CHARDONNAY. 'RO' IS AN MPORTANT CATEGORY FOR VINTAGE CHAMPA

June 2012

Question 1 – Canevel Extra Dry Prosecco, Vouvray Mousseaux NV, Roederer Quartet NV	
Answers: 272	Passes: 243 (89%)

This was an excellent set of results, not just from the point of view of the high pass rate, but also because more candidates passing did so with either a merit or distinction grade.

The rise in popularity of Prosecco in recent years no doubt made this a fairly easy wine to pick out and the distinctive autolysis, tertiary characteristics and level of complexity on the Roederer clearly defined this as a quality Champagne. It was the Vouvray that was more challenging.

The concluding part of this question required candidates to identify the method of production for one mark and explain why they had reached this conclusion for another four marks. In many instances there was little in the way of convincing evidence cited in this concluding section.

Question 2 – In relation to sparkling wine, write about each of the following:

- a) Prestige Cuvée Champagne
- b) Franciacorta
- c) Australia

Answers: 271

Passes: 172 (63%)

This was an uninspiring set of scripts with most candidates achieving a basic pass grade, and some extremely low marks from those awarded a fail (unclassified) grade. These candidates would do well to read the section at the beginning of this report that explains the different levels of assessment and how these change between the various WSET qualifications, as many of them have not progressed beyond the factual recall of the WSET Level 3 qualification, submitting answers that are brief and superficial.

With the paragraph sections in Units 4, 5 and 6 it is a good idea to think in terms of trigger words or questions. For example, who, what, where, why, how? All of these would have generated relevant information in response to these questions. Taking Prestige Cuvée Champagne as an example:

- What is it?
- <u>Where</u> is it produced? (It is not sufficient to state "in Champagne", but specifically where within the region are the grapes sourced? i.e. single vineyard wines etc)
- <u>Why</u> is it produced? What is its purpose?
- How does production of this particular wine differ from other Champagnes?

This is not going to provide all the information relating to this section, but will certainly go a long way to achieving this. Too many candidates simply wrote a generic answer on Champagne or described what a "cuvee" was, neither of which answered the question that was set.

The section on Franciacorta would work well using the "six factors" as the basis for the answer, (grape variety, climate, soil, weather, viticulture, vinification, maturation) along with a description of the wine style.

Many responses on Australia were too narrow in their focus, either writing only about sparkling Shiraz or only about premium quality traditional method wines. The best candidates structured their answer to compare the vast range of styles and quality levels produced throughout Australia.

Unit 6, Fortified Liqueur Wines

The examination for Unit 6 was run on three separate occasions in the academic year 2011/12, in November, March and June. The overall pass rate for the unit as a whole for all these dates combined was 65%.

The questions and individual pass rates for each of the three examination dates were as follows:

November 2011

Question 1 – Henriques & Henriques 10 year old Sercial, Henriques & Henriques 15 year old Malmsey, Henriques & Henriques full rich Madeira

Answers: 211

Passes: 118 (56%)

Once again, the emphasis here was on the candidates' ability to differentiate between three quality levels of the same style of wine – in this case Madeira. In a number of instances candidates did not read the question carefully enough and therefore missed that these were all from the same region, and this became evident when it came to identifying grape varieties. There were also difficulties when it came to the assessment of quality. Wine 3 caught a number of candidates out, either because they mistook the "fullness" for "richness" and therefore quality or because they assumed it would be the best wine because it was presented at the end of the line up.

Despite these problems, this was not a complete disaster in terms of the pass rate.

Question 2 – In relation to fortified wine, write about each of the following: a) Douro planting systems b) Languedoc	
c) VOS and VORS SI	herry
Answers: 209	Passes: 103 (49%)

Results for this question were worse than the tasting, resulting in a poor result for this unit as a whole.

The large number of candidates achieving very low marks on this paper, suggests that many of them either did not prepare sufficiently for this exam, or simply are not yet ready for a qualification of this level. A lot of the low marks were the result of candidates writing too much irrelevant, generic information rather than answering the

specific question that had been set. For example, there was no point in writing about the various grape varieties used in Port production or methods of fortification when examiners were looking for descriptions of planting systems. Similarly, descriptions of the various styles of Sherry would not have generated a pass grade in respect of section c).

The following candidate achieved a pass grade. The responses are not particularly extensive, but they are full of facts that are correct and relevant, showing that content is more important than quantity.

_(a)	The Daro has 3 main systems of planting. The first are 'boalcas' which are
	toraces dug into the Schist / Graine will of the Davo valley show wally protect
	these tenses to step stil eror These walls are have a guile about the which do
	not allow for mechanisation ve human labour is required the line downly of this
	water is also high, grand baco while per hedge which man that the torace need
19	frequent wearing, to and competition for water.
	The Ard aysten of "Patonuder" organized in the 1530's and there are of ramps,
	held tagethor by vegetation. While the ramps are give large, this means line
	denity is reduced but it does allow for small tractor to writting open. The downy of the is about 3500 per protore.
<u>,</u> t.,	Re I'd option is 'Vinhol as alle' or placing up on Adams a will side in a
	vertical raw, vatur then haizened. This here the diverteres of excremed 1871
	eroson, and potential waker forge altray our mechanistic is quite with
	the postora exten.
(14)	
(5)	The langerdoc is a region in the south to such heat of france. It is brown
	for 7-15 fortafied unes with such exaudes as Murat de Ruesaulles which 71
	mache from Muscat of Alexandria as well as Marcat à get grain & gape wareter,
	Ar nellow where where it son a well-tout range of toughad which is the only
	one that does so as the Munat de Boannes de Unise we save the Munat à
	fetit arain grage variez
1	As well as white wines, it has a well known range of fertified rect wines based
	on the Grenoche grope varety. The wire of Bany is and Ration AC come in
	to two situes - a fruity one whose the fathfrain is done conly in the unification process -
	to keep the frit compands and residual stags, and a hancic' style which to do to !
	hal a note stand (coded fist notice Boy & nost be Sole of George Nor and
	a Bary & Grand an most have 75%. It less fances neighbor of Maing also
	pratures stong fill bedied sid was fortified when of Grenode . The crea theo a
	general contratal clinuate. P.T.O

VOS (VIACUS Optimus Signatum) and VORS (Vinus Optimus Rezerva Sonatur) or (c)Very and charry and Very ad Daie Sherry are recent developments in the Newin groduct. These are new legal 12 all a 20 you do in The sheary has to be ad Case Of 10 Case dating is used ħ The sterra as Mais Makes it arthout ne Caduty MARTINE AL GGOL THU untile lat or Madiera contraduction, au This Ci way to deliver a Krapisab 12 Gal douification

March 2012

Question 1 – Quinta da Ervamoira 10 year old Tawny Port, Los Arcos Dry Amontillado Sherry, Stanton & Killeen Classic Rutherglen Muscat

Answers: 193

Passes: 147 (76%)

Despite the high pass rate, the examiner commented that many candidates submit "lazy" tasting notes. This was either because they were in the form of bullet point lists rather than analytical descriptions, or because of simplistic comments under the assessment of quality, where candidates often used terms such as "balanced" or "complex" but made no attempt to explain how or why these wines are balanced or complex.

Marks were also lost on the appearance where candidates used unorthodox colour descriptions and the Rutherglen Muscat was often mistaken for PX.

Question 2 – In relation to fortified wine, write about each of the following: a) Colour extraction in Port production b) Oloroso c) Maturation of Madeira		
Answers: 193	Passes: 145 (75%)	

This was a good pass rate, but the very wide span of marks from 9% to 80% showed that there were a number of candidates who are a long way short of the standard required for a pass grade in this qualification.

All three sections of this question focused on very straightforward factual recall, yet there were still some glaring gaps in candidates' knowledge or basic errors. For example, in terms of colour extraction in Port production, far too many candidates only wrote about the use of lagares without considering the role of other practices such as autovinifiers, piston plungers, pumping over or rotovinifiers.

June 2012

Question 1 – Valdespino Tio Diego Dry Amontillado, La Ina Fino, Gonzales Byass Alfonso Oloroso Seco	
Answers: 377	Passes: 311 (82%)

This was a very good result with an equal split between pass and merit grades and a good number of distinctions.

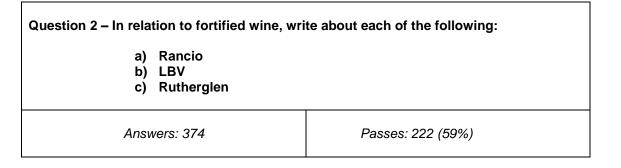
Common criticisms from the examiner where that some candidates are too vague in their use of terminology such as "solid acidity", "just off-dry", "slightly sweet", "decent length". Other write tasting notes are too informal or journalistic in style rather than objective and analytical.

Another area of weakness was in the concluding part of the tasting note, where candidates were required to identify the style within the category and explain what evidence in their tasting note supported this conclusion. Many candidates were unable to work out what was required here. The following candidate was not one of these, with some good analytical evidence put forward.

WINE No 1 Appearance: (3 marks) Sitight and clear. The colour is ambed and has a light interest The who has a small water in and haves besoured the Nose: (7 marks) The nose is clean and fully people . It has a measing glavare ratersity with glavours of toffee, counted, area insing, arres figs, setbeate or pation and all It has complex growers. Palate: (10 marks) On the palate, this wine is any and has been fortified to a high busice of alcohol - It has measure a proof and a measure by It has measure glavour intensity when shows are not Asian & comptoo glavours such as setibreate oor Dation, hasdynts, toffee, counnel, ories justs (figs, sonsing) thorn It has a big longht. Style within the category: (1 mark) Amontillago. What evidence in your tasting note supports this conclusion? (4 marks) Amontallago is a give that for which the flar has sign and Enos up ordioisting - As the wine address, the colour turn's another like this wine and the wine perelops more complex planavs such as hazelnuts, toffer, area faits - all the these places that we grow in this wine. The wine & also has a high acrosty which collectorises Amentillago. The boon is measured like a fires Are art. March

WINE No 2 Appearance: (3 marks) Saight any close line. The colour is pale lemon. It has a blog water win any the wine bases by avon the plass Nose: (7 marks) The wast's chan any fully serelypes. It has a mession of plausur intensity with plairours of green apples (fresh and Emple), citus (know), hardnut, a gist and a gla - It aslo has Same SAVary Notes Palate: (10 marks) On the palate, this wine is day with a tigh a costy - It has ten fortigred to a pick begree of april 1 in at California and measure & flavour ratersty of flesh green apples, citers has (lemming time), hazelingts of It has some savour notes and a sistinctive glor. This wine has a pacy accord and a mean thought Style within the category: (1 mark) Sherry- MANZANJ, 1/1 1 What evidence in your tasting note supports this conclusion? (4 marks)/ "Janzanilla Shew are ages under for (a protection yeast & layer which gives narranilla its orstactive glavour) in the town of Salucar De Barramion where flor is actue all year acound. This wine shows typicity through the notable presence of glor and its high according and savay notes typical of Manzanilla

1.1 WINE No 3 Appearance: (3 marks) wine. The colour is Amber and CANA HAPT CLERL A ZAN the mession interest. The wine has a small bailes oC.A Ecolo alt cricia 200 Nose: (7 marks)* The nose is clear - It is gulf orieliped. Privare, inortacion states be strough comment Rusts CDIGED (LITED UNER) Palate: (10 marks) This wine is an ever and has a moruna activity The boon is measure It has been fortified to a high level - It has measured flavour intensity with district anona of settlerate asimilation such as is, counties, honey, than hazelout, perco fourts (figs (norsens) 27 the ral att a Atoome "Cere 75 canplexo Rich 2737 101 Style within the category: (1 mark) 28.030 What evidence in your tasting note supports this conclusion? (4 marks) FRONDER OLOROSO TS A Note which is detberath condition -The cash are only post filles when ages the contract with the are thought or oneloging similar glavous as The ones found in this line (type, here), carm of protes in and prices when ar accord richal than other sherries. It cod car



This was a fairly mediocre set of scripts with a clear divide between those candidates with sound knowledge and those who have a lot more work to do as evidenced by more than 20% of candidates achieving a fail (unclassified) grade. Each of the three sections had its own pitfalls, but by far the weakest section was "rancio". This was described by some candidates as "a viticultural practice", "a style of Eau de Vie", "flor helps develop rancio flavours". Even the other sections had their problems – Rutherglen was located in South Africa or Cyprus and LBV was described as "bottle matured Port". Responses on LBV also tended to be too generic – simply listing the Port grape varieties and describing the Port method of fortification rather than explaining how this style of Port differs from others in terms of production, maturation, style etc.