



Victorian Certificate of Education 2014

SUPERVISOR TO ATTACH PROCESSING LABEL HERE

STUDENT NUMBER

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Letter

INDUSTRY AND ENTERPRISE

Written examination

Friday 14 November 2014

Reading time: 3.00 pm to 3.15 pm (15 minutes)

Writing time: 3.15 pm to 5.15 pm (2 hours)

QUESTION AND ANSWER BOOK

Structure of book

<i>Number of questions</i>	<i>Number of questions to be answered</i>	<i>Number of marks</i>
7	7	70

Materials supplied

- Question and answer book of 20 pages.
 - Additional space is available at the end of the book if you need extra paper to complete an answer.

Instructions

- Write your **student number** in the space provided above on this page.
 - All written responses must be in English.

Students are NOT permitted to bring mobile phones and/or any other unauthorised electronic devices into the examination room.

Instructions

Answer **all** questions in the spaces provided.

You are encouraged to draw on your structured workplace learning and wider industry knowledge when answering questions in this paper.

Question 1 (7 marks)

Jeremy is a student who is completing his structured workplace learning by taking part in a school-based project to produce an anti-bullying kit for Year 7 students at his school. Roles have been allocated to team members and Jeremy has been elected the overall manager of the project.

- a. Describe how Jeremy could develop his planning and organising skills during this project. 2 marks

- b. Describe **one** other work-related skill that Jeremy may use in his role as the overall manager. 2 marks

Question 1 – continued

- c. Explain how the development of work-related skills in individuals contributes to an enterprise culture in a community and/or work setting. 3 marks

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Question 2 (11 marks)

- a. Define the term ‘industry-specific competencies’ and outline an example of how they were, or could have been, developed during your structured workplace learning. 4 marks

Question 2 – continued

- b. Describe **one** type of formal training and **one** type of informal training that was used, or could be used, in an industry, community and/or work setting with which you are familiar. 4 marks

- c. Identify **one** stakeholder in the industry, community and/or work setting used in your response to part b. Explain the effects of any type of training on this stakeholder. 3 marks

Question 3 (7 marks)

- a. Explain how an emphasis on environmental sustainability within industry is an opportunity for change. 3 marks

- b.** Discuss how an industry's response to an increased emphasis on environmental sustainability has affected, or could affect, **one** stakeholder. 4 marks

Question 4 (6 marks)

- a. Define the term ‘technology’ as it applies to work tasks and/or processes. 2 marks

- b.** Identify **one** technological innovation that has occurred in the last decade in a work setting with which you are familiar. Discuss how this technological development has had an impact on tasks and processes within that work setting. 4 marks

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Question 5 (10 marks)

- a. Outline the key features of an enterprise culture. 2 marks

- b.** Compare the work-related skills of leadership and teamwork. 3 marks

Question 5 – continued

- c. Identify a community and/or work setting with which you are familiar. Evaluate the extent to which this community and/or work setting has developed an enterprise culture. 5 marks

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Question 6 (13 marks)

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Source: Yassmin Abdel-Magied, 'Manufacturing will be what we make it',
The Sydney Morning Herald, 18 February 2014

¹**venture capitalism** – investment in a project that involves a substantial element of risk

²**powerhouse** – a powerful person or organisation

³**niche** – specialised

- a. Define the term 'international competitiveness'.

2 marks

Question 6 – continued

- b.** Explain how the need for Australian industry to be internationally competitive is both a pressure and an opportunity for change. 4 marks

- c. Outline the role government could play in making Australia ‘a nation of manufacturing and engineering excellence’. 2 marks

- d. Identify an industry with which you are familiar. Evaluate its response to pressures and opportunities for change. 5 marks

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Question 7 (16 marks)**Article 1****AusIndustry assisting FreshBins**

FreshBins' specially equipped and fitted bin-cleaning truck can clean up to 1,000 bins in a day using just half-a-cup of water on each bin.

Made possible by FreshBins' passion and Australian Government research and development assistance, the truck solution uses patented 3D robotics and chemical-free cleaning and sanitising processes, destroying all bacteria and pathogens without toxic chemicals.

The unit also filters all waste from the sanitised water which is recycled for continuous cleaning. This process removes the need to dump contaminated water, thus saving our most precious resource, water.

Cleaning a bin at home by hand, generally takes between 20 and 100 litres of water to replicate the job which FreshBins' technology can achieve with half-a-cup of water.

The cleaning operator does not need to leave the cabin of the truck, so is not physically involved in the cleaning process. This eliminates the occupational health and safety issues typically associated with manual bin cleaning services.

FreshBins Managing Director, Paul Sewell, said ... 'Research and development is very important for creating new jobs in Australia and a tax concession program helps make that R&D possible ... The driving force for FreshBins is to create well-paid jobs for Australia and we are really proud that all of our manufacturing is done here in Australia. It took us a lot of work to do that.'

Source: Australian Government, Department of Industry, Building Success website,
'AusIndustry assisting FreshBins', 2013

Article 2**FreshBins cleans up with research**

... the R&D Tax Incentive [is] the principal Commonwealth Government initiative to increase the amount of research and development undertaken in Australia. The aim is to encourage innovative, competitive and export-oriented Australian industries ...

FreshBins' awards cabinet is now full to overflowing after taking out four awards in 2010 with its truck ... and just recently the company won the Victorian Engineering Awards for Research and Development/Innovation. The company's four awards were the Worksafe Victoria 2010 best OH&S solution in manufacturing, logistics and agriculture; the 2010 savewater innovation award and the best innovation award; and green business award at the 2010 Powercor Business Awards.

Source: Australian Government, Department of Industry, AusIndustry website, Customer story,
'FreshBins cleans up with research', 2012

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- a. Explain how research and development has assisted FreshBins to develop an innovative culture. 3 marks

- b. Discuss the relationship between innovation and technology in developing an enterprise culture in Australian industry. 4 marks

- c. Explain how FreshBins has used technology-focused innovation to develop an enterprise culture in its organisation. 3 marks

- d. Evaluate the use of technology-focused innovation in a community and/or work setting or industry with which you are familiar. 6 marks

Extra space for responses

Clearly number all responses in this space.

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An answer book is available from the supervisor if you need extra paper to complete your answer. Please ensure you write your **student number** in the space provided on the front cover of the answer book.
At the end of the examination, place the answer book inside the front cover of this question and answer book.

