# Knowledge Test: Topic 2 Sustainability and resource efficiency

# Trainer & Assessor Marking Guide

## Criteria

### Unit code, name and release number

MSMENV272 - Participate in environmentally sustainable work practices (R2)

### Qualification/Course code, name and release number

MSF31113 Certificate III in Cabinet Making (R6)

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For queries, please contact:

*Innovative Manufacturing, Robotics and Science SkillsPoint*

*TAFE NSW*

*98 Parry Street*

*Newcastle West*

*NSW 2302*

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This assessment can be found in the: [Learning Bank](https://share.tafensw.edu.au/share/access/searching.do?doc=%3Cxml%2F%3E&in=P7ac4831b-430a-4b8d-8b56-f7b32ed5b9cf&q=&type=standard&sort=rank&dr=AFTER)

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## Assessment instructions

Table 1 Assessment instructions

| Assessment details | Instructions |
| --- | --- |
| **Instructions for the trainer and assessor** | This is a written assessment and will be assessing the student on their knowledge of the unit.  This assessment is in 2 parts:   1. Multiple choice questions 2. True or False questions 3. Assessment feedback   Assessment feedback is provided at the end of the student assessment document.  Model answers, sample responses or a criteria for each question are provided below.  Use these to support your judgement when determining a satisfactory result.  The student’s response to each question must contain the information indicated in this marking guide in order for their response to be correct. However, if a student provides information other than indicated below, and in the professional opinion of the assessor it is appropriate and meets the intent of the question, it may be considered correct.  The assessment feedback page must be signed by both the student and the assessor so the student displays that they have received, understood and accepted the feedback.  Complete the assessment feedback to the student and ensure you have taken a copy of the assessment prior to it being returned to the student.  Ensure the students name appears on the bottom of each page of the submitted assessment. |
| **About this marking guide** | The student’s response to each question must contain the information indicated in this marking guide in order for their response to be correct.  All questions must be answered correctly in order to satisfactorily complete this assessment event.  Assessors will need to make a judgement call as to whether each answer/response meets the criteria based upon the:   * Rules of Evidence:   + Validity – does the answer address the assessment question and does the evidence reflect the four dimensions of competency?   + Sufficiency – is the answer sufficient in terms of length and depth?   + Currency – has the work been done so recently as to be current?   + Authenticity – is this work the student’s own authentic work? * Principles of Assessment:   + Fairness – individual student’s needs are considered in the assessment process   + Flexibility – assessment is flexible to the individual student   + Validity – any assessment decision is justified, based on the evidence of performance of the student   + Reliability – evidence presented for assessment is consistently interpreted and assessment results are comparable irrespective of the assessor conducting the assessment * Dimensions of Competency   + Task skills   + Task Management Skills   + Contingency Planning Skills   + Job Role Environment Skills |
| **Student must provide** | Calculator, pens, note pad, USB/FLASH to download and store electronic files. Internet access and Computer for students off campus if completing online. |
| **Assessor must provide** | Computers, Learner Resources, Activity sheets, reference text, organisational policy etc that is referenced in the assessment. These may be hard copy or made available online. |
| **Time allowed** | 60 minutes. |

## Part 1: Multiple choice

Read the question and each answer carefully. Put an X in the table next to your chosen answer.

1. What causes climate change? (1.1)

Table 2 Multiple choice

| Answer choices | Put X next to your answer |
| --- | --- |
| 1. The hole in the ozone layer allowing more of the sun’s rays to heat the earth |  |
| 1. An increases in the amount of greenhouse gases in the atmosphere trapping more heat | X |
| 1. Increases in the amount of forested areas |  |
| 1. All of the above |  |

1. Which items are non-renewable resources? (KE1, 1.1)

Table 3 Multiple choice

| Answer choices | Put X next to your answer |
| --- | --- |
| 1. Iron ore, coal, crude oil | X |
| 1. Timber, water, food crops |  |
| 1. Solar, wind and hydro electricity |  |
| 1. All of the above |  |

1. What is the main environmental problem of coal-generated electricity? (1.1)

Table 4 Multiple choice

| Answer choices | Put X next to your answer |
| --- | --- |
| 1. Contributes to the hole in the ozone layer |  |
| 1. Loss of biodiversity due to deforestation |  |
| 1. Pollution of waterways |  |
| 1. Generates greenhouse gases | X |

1. Why are solvents and other volatile chemicals bad for the environment? (1.1)

Table 5 Multiple choice

| Answer choices | Put X next to your answer |
| --- | --- |
| 1. They are not healthy for workers to breath in |  |
| 1. Their vapours can contain very strong greenhouse gases | X |
| 1. They are a renewable resource |  |
| 1. They cause problems with the ozone layer |  |

1. Embodied energy refers to: (KE1, 1.1)

Table 6 Multiple choice

| Answer choices | Put X next to your answer |
| --- | --- |
| 1. The amount of greenhouse gases released during the production of a product |  |
| 1. Life cycle assessment |  |
| 1. The energy, water and resources used and the waste and pollution generated to create a product | X |
| 1. The supply chain of a product |  |

## Part 2: True or false

*Copy and paste the exact questions as per the student assessment and add your model answers for each question. These answers will be the marking criteria used to determine competency.*

Table 7 True or false

| Question | Write *True* or *False* |
| --- | --- |
| 1. There are strict laws in place in Australia to ensure that all businesses implement resource efficiency practices. (KE1, 1.1) | F |
| 2. Corporate social responsibility usually means that a company knows where their products come from. (KE1, 1.1) | T |
| 3. Local councils make sure businesses don’t produce greenhouse gases. (KE1, 1.1) | F |
| 4. Climate change is expected to occur because of an increase in the average temperature of the Earth. (KE1, 1.1) | T |
| 5. We expect water to become more scarce when population increases. (1.1) | T |
| 6. Using resources carefully is a way that product wastage is controlled. (KE1, 1.1) | T |
| 7. If a product has an inefficient life cycle, the result is less embodied energy. (KE1, 1.1) | F |
| 8. Timber has the potential to remove greenhouse gases from the atmosphere. (1.1) | T |
| 9. Plastics are produced from crude oil. (1.1) | T |
| 10. Natural gas is a renewable resource. (1.1) | F |