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| Engineering Skills 2024 v1.0  [#]1: Practical demonstration [— topic] Workshop sample assessment template This sample has been compiled by the QCAA to assist and support teachers in planning and developing assessment instruments for individual school settings.  Schools develop internal assessments for each Applied subject, based on the learning and assessment described in the syllabus.  To use this template, teachers should:   * customise the school information section and subject details, delete the QCAA logo, and replace ‘Queensland Curriculum and Assessment Authority’ with the school name in all footers * complete the unit and module section using information from the syllabus * consider the conditions prescribed in the syllabus when completing the conditions section * construct assessment items in the provided fields. Refer to the guidance provided in yellow in the template. This guidance refers to content to be entered * include stimulus items within the template or attached separately, as appropriate * refer to the Assessment techniques section of the syllabus for further information about subject-specific specifications for a Project, e.g. whether all objectives need to be assessed * remove the text in blue from the assessment instrument when it is completed. The text in blue provides formatting tips and instructions to writers.  |  |  | | --- | --- | | **Student name** |  | | **Student number** |  | | **Teacher** |  | | **Issued** |  | | **Due date** |  |   **Overall result**   | Result | | | | | Comment | | --- | --- | --- | --- | --- | --- | | **A** | **B** | **C** | **D** | **E** |  | |

## Conditions

Copy and paste the technique, unit, duration and response requirements directly from your syllabus. Identify if it will be a group or individual task. Add other resource information as needed or delete these fields as needed.

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| --- | --- |
| **Technique** | [Insert collection of work, investigation, performance, practical demonstration, product, project] |
| **Unit** | [Insert the unit number and name, i.e. Unit 2: Domestic building] |
| **Response requirements** | [Specify whether the response is written, spoken and/or multimodal and/or the number of words, minutes, pages and/or slides.] |
| **Individual/group** | [Specify whether individual or group work is required.] |
| **Other** | [Identify here if there is stimulus to be used, access to technology, use of notes, audience, genre, word length etc. Add a row for each instruction.] |
| **Resources** | [Specify access to resources.] |

## Context

Suggested items to include are:

* + purpose of the task
  + information about the audience
  + relevance of the instrument to the unit of work
  + description of the problem or scenario that students will address when completing the task
  + delete if the context is not needed in your subject.

## Task

Add task, i.e. copy and paste the task information from the relevant unit and then contextualise it to align to your school and student needs.

## Specifications

Copy and paste the specifications directly from the syllabus. You can then contextualise this further to align to the specific task you have developed.

This task requires students to:

## Stimulus

Add further stimulus information here as required. Use appropriate titles and sub-titles as necessary.

If it is impractical to include the actual stimulus material, describe what stimulus or type of stimulus is required to complete this task.

## Checkpoints

Insert or delete due dates and sign-off as required. Insert a maximum of five checkpoints.

[Term [X] Week [x]/Date]: Identify checkpoint action.]

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[Term [X] Week [x]/Date]: Identify checkpoint action.]

## Authentication strategies

Select at least one strategy from the following list. Delete strategies not required.

* The teacher will provide class time for task completion.
* Students will produce sections of the final response under supervised conditions.
* Students will each produce a unique response by … [Identify how this is achieved, e.g. selecting a unique topic or a topic with teacher-defined limits to how many students may select that particular topic, using individualised datasets, collecting data as a group but producing individual reports … ]
* Students will provide documentation of their progress [at indicated checkpoints, if checkpoints are provided].
* The teacher will collect copies of the student response and monitor at key junctures.
* The teacher will collect and annotate drafts.
* The teacher will conduct interviews or consultations with each student as they develop the response.
* Students will use plagiarism-detection software at submission of the response.
* Students must acknowledge all sources.
* Students must submit a declaration of authenticity.
* Students will produce summaries during the response preparation.
* The teacher will conduct interviews after submission to clarify or explore aspects of the response.
* The teacher will compare the responses of students who have worked together in groups.
* The teacher will ensure class cross-marking occurs.

## Scaffolding

* + Delete this heading and section if no scaffolding will be used.

[Scaffolding should describe specific processes that must be used, or expectations for the presentation of the student response, e.g. information about the report format to be used, expected referencing or citation conventions, or the inquiry or problem-solving model that must be used.]

**Instrument-specific standards (A1): Practical demonstration — Fitting and machining**

| **Demonstrate** | **Interpret** | **Select** | **Evaluate** | **Grade** |
| --- | --- | --- | --- | --- |
| **The student work has the following characteristics:** | | | | |
| * comprehensive demonstration of fitting and machining industry practices, and production skills and procedures when manufacturing a fitting and machining artefact | * insightful and justified interpretation of fitting and machining drawings and technical information when manufacturing a fitting and machining artefact | * strategic selection of fitting and machining industry practices, and production skills and procedures when manufacturing a fitting and machining artefact | * insightful and justified evaluation of fitting and machining production skills, procedures and a fitting and machining artefact | **A** |
| * consistent demonstration of fitting and machining industry practices, and production skills and procedures when manufacturing a fitting and machining artefact | * detailed and supported interpretation of fitting and machining drawings and technical information when manufacturing a fitting and machining artefact | * consistent selection of fitting and machining industry practices, and production skills and procedures when manufacturing a fitting and machining artefact | * detailed and supported evaluation of fitting and machining production skills, procedures and a fitting and machining artefact | **B** |
| * demonstration of fitting and machining industry practices, and production skills and procedures when manufacturing a fitting and machining artefact | * interpretation of fitting and machining drawings and technical information when manufacturing a fitting and machining artefact | * selection of fitting and machining industry practices, and production skills and procedures when manufacturing a fitting and machining artefact | * evaluation of fitting and machining production skills, procedures and a fitting and machining artefact | **C** |
| * inconsistent demonstration of production skills and procedures when manufacturing an incomplete fitting and machining artefact with obvious inaccuracies | * narrow and unsupported reference to drawings when manufacturing an incomplete fitting and machining artefact with obvious inaccuracies | * inconsistent selection of production skills and procedures when manufacturing an incomplete fitting and machining artefact with obvious inaccuracies | * narrow and unsupported evaluation of production skills and procedures and an incomplete fitting and machining artefact with obvious inaccuracies | **D** |
| * incorrect demonstration of production skills and procedures when manufacturing aspects of a fitting and machining artefact. | * superficial and unsubstantiated reference to drawings when manufacturing aspects of a fitting and machining artefact. | * incorrect selection of production skills and procedures when manufacturing aspects of a fitting and machining artefact. | * statements made about production skills, procedures or aspects of a fitting and machining artefact. | **E** |

**Instrument-specific standards (B1): Practical demonstration — Welding and fabrication**

| **Demonstrate** | **Interpret** | **Select** | **Evaluate** | **Grade** |
| --- | --- | --- | --- | --- |
| **The student work has the following characteristics:** | | | | |
| * comprehensive demonstration of welding and fabrication industry practices, and production skills and procedures when manufacturing a welding and fabrication artefact | * insightful and justified interpretation of welding and fabrication drawings and technical information when manufacturing a welding and fabrication artefact | * strategic selection of welding and fabrication industry practices, and production skills and procedures when manufacturing a welding and fabrication artefact | * insightful and justified evaluation of welding and fabrication production skills, procedures and a welding and fabrication artefact | **A** |
| * consistent demonstration of welding and fabrication industry practices, and production skills and procedures when manufacturing a welding and fabrication artefact | * detailed and supported interpretation of welding and fabrication drawings and technical information when manufacturing a welding and fabrication artefact | * consistent selection of welding and fabrication industry practices, and production skills and procedures when manufacturing a welding and fabrication artefact | * detailed and supported evaluation of welding and fabrication production skills, procedures and a welding and fabrication artefact | **B** |
| * demonstration of welding and fabrication industry practices, and production skills and procedures when manufacturing a welding and fabrication artefact | * interpretation of welding and fabrication drawings and technical information when manufacturing a welding and fabrication artefact | * selection of welding and fabrication industry practices, and production skills and procedures when manufacturing a welding and fabrication artefact | * evaluation of welding and fabrication production skills, procedures and a welding and fabrication artefact | **C** |
| * inconsistent demonstration of production skills and procedures when manufacturing an incomplete welding and fabrication artefact with obvious inaccuracies | * narrow and unsupported reference to drawings when manufacturing an incomplete welding and fabrication artefact with obvious inaccuracies | * inconsistent selection of production skills and procedures when manufacturing an incomplete welding and fabrication artefact with obvious inaccuracies | * narrow and unsupported evaluation of production skills, procedures and an incomplete welding and fabrication artefact with obvious inaccuracies | **D** |
| * incorrect demonstration of production skills and procedures when manufacturing aspects of a welding and fabrication artefact. | * superficial and unsubstantiated reference to drawings when manufacturing aspects of a welding and fabrication artefact. | * incorrect selection of production skills and procedures when manufacturing aspects of a welding and fabrication artefact. | * statements made about production skills, procedures or aspects of a welding and fabrication artefact. | **E** |

**Instrument-specific standards (C1): Practical demonstration — Sheet metal working**

| **Demonstrate** | **Interpret** | **Select** | **Evaluate** | **Grade** |
| --- | --- | --- | --- | --- |
| **The student work has the following characteristics:** | | | | |
| * comprehensive demonstration of sheet metal working industry practices, and production skills and procedures when manufacturing a sheet metal artefact | * insightful and justified interpretation of sheet metal working drawings and technical information when manufacturing a sheet metal artefact | * strategic selection of sheet metal working industry practices, and production skills and procedures when manufacturing a sheet metal artefact | * insightful and justified evaluation of sheet metal working production skills, procedures and a sheet metal artefact | **A** |
| * consistent demonstration of sheet metal working industry practices, and production skills and procedures when manufacturing a sheet metal artefact | * detailed and supported interpretation of sheet metal working drawings and technical information when manufacturing a sheet metal artefact | * consistent selection of sheet metal working industry practices, and production skills and procedures when manufacturing a sheet metal artefact | * detailed and supported evaluation of sheet metal working production skills, procedures and a sheet metal artefact | **B** |
| * demonstration of sheet metal working industry practices, and production skills and procedures when manufacturing a sheet metal artefact | * interpretation of sheet metal working drawings and technical information when manufacturing a sheet metal artefact | * selection of sheet metal working industry practices, and production skills and procedures when manufacturing a sheet metal artefact | * evaluation of sheet metal working production skills, procedures and a sheet metal artefact | **C** |
| * inconsistent demonstration of production skills and procedures when manufacturing an incomplete sheet metal artefact with obvious inaccuracies | * narrow and unsupported reference to drawings when manufacturing an incomplete sheet metal artefact with obvious inaccuracies | * inconsistent selection of production skills and procedures when manufacturing an incomplete sheet metal artefact with obvious inaccuracies | * narrow and unsupported evaluation of production skills, procedures and an incomplete sheet metal artefact with obvious inaccuracies | **D** |
| * incorrect demonstration of production skills and procedures when manufacturing aspects of a sheet metal artefact. | * superficial and unsubstantiated reference to drawings when manufacturing aspects of a sheet metal artefact. | * incorrect selection of production skills and procedures when manufacturing aspects of a sheet metal artefact. | * statements made about production skills, procedures or aspects of a sheet metal artefact. | **E** |

**Instrument-specific standards (D1): Practical demonstration — Structural engineering**

| **Demonstrate** | **Interpret** | **Select** | **Evaluate** | **Grade** |
| --- | --- | --- | --- | --- |
| **The student work has the following characteristics:** | | | | |
| * comprehensive demonstration of structural engineering industry practices, and production skills and procedures when manufacturing a structural engineering artefact | * insightful and justified interpretation of structural engineering drawings and technical information when manufacturing a structural engineering artefact | * strategic selection of structural engineering industry practices, and production skills and procedures when manufacturing a structural engineering artefact | * insightful and justified evaluation of structural engineering production skills, procedures and a structural engineering artefact | **A** |
| * consistent demonstration of structural engineering industry practices, and production skills and procedures when manufacturing a structural engineering artefact | * detailed and supported interpretation of structural engineering drawings and technical information when manufacturing a structural engineering artefact | * consistent selection of structural engineering industry practices, and production skills and procedures when manufacturing a structural engineering artefact | * detailed and supported evaluation of structural engineering production skills, procedures and a structural engineering artefact | **B** |
| * demonstration of structural engineering industry practices, and production skills and procedures when manufacturing a structural engineering artefact | * interpretation of structural engineering drawings and technical information when manufacturing a structural engineering artefact | * selection of structural engineering industry practices, and production skills and procedures when manufacturing a structural engineering artefact | * evaluation of structural engineering production skills, procedures and a structural engineering artefact | **C** |
| * inconsistent demonstration of production skills and procedures when manufacturing an incomplete structural engineering artefact with obvious inaccuracies | * narrow and unsupported reference to drawings when manufacturing an incomplete structural engineering artefact with obvious inaccuracies | * inconsistent selection of production skills and procedures when manufacturing an incomplete structural engineering artefact with obvious inaccuracies | * narrow and unsupported evaluation of production skills, procedures and an incomplete structural engineering artefact with obvious inaccuracies | **D** |
| * incorrect demonstration of production skills and procedures when manufacturing aspects of a structural engineering artefact. | * superficial and unsubstantiated reference to drawings when manufacturing aspects of a structural engineering artefact. | * incorrect selection of production skills and procedures when manufacturing aspects of a structural engineering artefact. | * statements made about production skills, procedures or aspects of a structural engineering artefact. | **E** |

**Instrument-specific standards (E1): Practical demonstration — Transport engineering**

| **Demonstrate** | **Interpret** | **Select** | **Evaluate** | **Grade** |
| --- | --- | --- | --- | --- |
| **The student work has the following characteristics:** | | | | |
| * comprehensive demonstration of transport engineering industry practices, and production skills and procedures when manufacturing a transport engineering artefact | * insightful and justified interpretation of transport engineering drawings and technical information when manufacturing a transport engineering artefact | * strategic selection of transport engineering industry practices, and production skills and procedures when manufacturing a transport engineering artefact | * insightful and justified evaluation of transport engineering production skills, procedures and a transport engineering artefact | **A** |
| * consistent demonstration of transport engineering industry practices, and production skills and procedures when manufacturing a transport engineering artefact | * detailed and supported interpretation of transport engineering drawings and technical information when manufacturing a transport engineering artefact | * consistent selection of transport engineering industry practices, and production skills and procedures when manufacturing a transport engineering artefact | * detailed and supported evaluation of transport engineering production skills, procedures and a transport engineering artefact | **B** |
| * demonstration of transport engineering industry practices, and production skills and procedures when manufacturing a transport engineering artefact | * interpretation of transport engineering drawings and technical information when manufacturing a transport engineering artefact | * selection of transport engineering industry practices, and production skills and procedures when manufacturing a transport engineering artefact | * evaluation of transport engineering production skills, procedures and a transport engineering artefact | **C** |
| * inconsistent demonstration of production skills and procedures when manufacturing an incomplete transport engineering artefact with obvious inaccuracies | * narrow and unsupported reference to drawings when manufacturing an incomplete transport engineering artefact with obvious inaccuracies | * inconsistent selection of production skills and procedures when manufacturing an incomplete transport engineering artefact with obvious inaccuracies | * narrow and unsupported evaluation of production skills, procedures and an incomplete transport engineering artefact with obvious inaccuracies | **D** |
| * incorrect demonstration of production skills and procedures when manufacturing aspects of a transport engineering artefact. | * superficial and unsubstantiated reference to drawings when manufacturing aspects of a transport engineering artefact. | * incorrect selection of production skills and procedures when manufacturing aspects of a transport engineering artefact. | * statements made about production skills, procedures or aspects of a transport engineering artefact. | **E** |

**Instrument-specific standards (F1): Practical demonstration — Manufacturing engineering**

| **Demonstrate** | **Interpret** | **Select** | **Evaluate** | **Grade** |
| --- | --- | --- | --- | --- |
| **The student work has the following characteristics:** | | | | |
| * comprehensive demonstration of manufacturing engineering industry practices, and production skills and procedures when manufacturing a manufacturing engineering artefact | * insightful and justified interpretation of manufacturing engineering drawings and technical information when manufacturing a manufacturing engineering artefact | * strategic selection of manufacturing engineering industry practices, and production skills and procedures when manufacturing a manufacturing engineering artefact | * insightful and justified evaluation of manufacturing engineering production skills, procedures and a manufacturing engineering artefact | **A** |
| * consistent demonstration of manufacturing engineering industry practices, and production skills and procedures when manufacturing a manufacturing engineering artefact | * detailed and supported interpretation of manufacturing engineering drawings and technical information when manufacturing a manufacturing engineering artefact | * consistent selection of manufacturing engineering industry practices, and production skills and procedures when manufacturing a manufacturing engineering artefact | * detailed and supported evaluation of manufacturing engineering production skills, procedures and a manufacturing engineering artefact | **B** |
| * demonstration of manufacturing engineering industry practices, and production skills and procedures when manufacturing a manufacturing engineering artefact | * interpretation of manufacturing engineering drawings and technical information when manufacturing a manufacturing engineering artefact | * selection of manufacturing engineering industry practices, and production skills and procedures when manufacturing a manufacturing engineering artefact | * evaluation of manufacturing engineering production skills, procedures and a manufacturing engineering artefact | **C** |
| * inconsistent demonstration of production skills and procedures when manufacturing an incomplete manufacturing engineering artefact with obvious inaccuracies | * narrow and unsupported reference to drawings when manufacturing an incomplete manufacturing engineering artefact with obvious inaccuracies | * inconsistent selection of production skills and procedures when manufacturing an incomplete manufacturing engineering artefact with obvious inaccuracies | * narrow and unsupported evaluation of production skills, procedures and an incomplete manufacturing engineering artefact with obvious inaccuracies | **D** |
| * incorrect demonstration of production skills and procedures when manufacturing aspects of a manufacturing engineering artefact. | * superficial and unsubstantiated reference to drawings when manufacturing aspects of a manufacturing engineering artefact. | * incorrect selection of production skills and procedures when manufacturing aspects of a manufacturing engineering artefact. | * statements made about production skills, procedures or aspects of a manufacturing engineering artefact. | **E** |

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