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| Engineering Skills 2024 v1.0[#]2: Project [— topic]Workshop sample assessment templateThis 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** |  |

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## 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.

|  |  |
| --- | --- |
| **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.]

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

[ ]  [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 (A2): Project — Fitting and machining

| Demonstrate | Interpret | Select | Sequence | Evaluate | Adapt | 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 product
 | * insightful and justified interpretation of fitting and machining drawings and technical information when manufacturing a fitting and machining product
 | * strategic selection of fitting and machining industry practices, and production skills and procedures when manufacturing a fitting and machining product
 | * strategic sequencing of fitting and machining production processes when manufacturing a fitting and machining product
 | * insightful and justified evaluation of fitting and machining production skills, procedures and a fitting and machining product
 | * insightful and justified adaptation of fitting and machining production plans, skills and procedures when manufacturing a fitting and machining product
 | **A** |
| * consistent demonstration of fitting and machining industry practices, and production skills and procedures when manufacturing a fitting and machining product
 | * detailed and supported interpretation of fitting and machining drawings and technical information when manufacturing a fitting and machining product
 | * consistent selection of fitting and machining industry practices, and production skills and procedures when manufacturing a fitting and machining product
 | * consistent sequencing of fitting and machining production processes when manufacturing a fitting and machining product
 | * detailed and supported evaluation of fitting and machining production skills, procedures and a fitting and machining product
 | * detailed and supported adaptation of fitting and machining production plans, skills and procedures when manufacturing a fitting and machining product
 | **B** |
| * demonstration of fitting and machining industry practices, and production skills and procedures when manufacturing a fitting and machining product
 | * interpretation of fitting and machining drawings and technical information when manufacturing a fitting and machining product
 | * selection of fitting and machining industry practices, and production skills and procedures when manufacturing a fitting and machining product
 | * sequencing of fitting and machining industry production processes when manufacturing a fitting and machining product
 | * evaluation of fitting and machining production skills, procedures and a fitting and machining product
 | * adaptation of fitting and machining production plans, skills and procedures when manufacturing a fitting and machining product
 | **C** |
| * inconsistent demonstration of production skills and procedures when manufacturing an incomplete fitting and machining product with obvious inaccuracies
 | * narrow and unsupported reference to drawings when manufacturing an incomplete fitting and machining product with obvious inaccuracies
 | * inconsistent selection of production skills and procedures when manufacturing an incomplete fitting and machining product with obvious inaccuracies
 | * inconsistent sequencing of production skills or procedures when manufacturing an incomplete fitting and machining product with obvious inaccuracies
 | * narrow and unsupported evaluation of production skills, procedures, or an incomplete fitting and machining product with obvious inaccuracies
 | * narrow and unsupported adaptations to production skills or procedures when manufacturing an incomplete fitting and machining product with obvious inaccuracies
 | **D** |
| * incorrect demonstration of production skills and procedures when manufacturing aspects of a fitting and machining product.
 | * superficial and unsubstantiated reference to drawings when manufacturing aspects of a fitting and machining product.
 | * incorrect selection of production skills and procedures when manufacturing aspects of a fitting and machining product.
 | * incorrect sequencing of production skills or procedures when manufacturing aspects of a fitting and machining product.
 | * statements made about production skills, procedures or aspects of a fitting and machining product.
 | * changes made to skills or procedures when manufacturing aspects of a fitting and machining product.
 | **E** |

## Instrument-specific standards (B2): Project — Welding and fabrication

| Demonstrate | Interpret | Select | Sequence | Evaluate | Adapt | 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 product
 | * insightful and justified interpretation of welding and fabrication drawings and technical information when manufacturing a welding and fabrication product
 | * strategic selection of welding and fabrication industry practices, and production skills and procedures when manufacturing a welding and fabrication product
 | * strategic sequencing of welding and fabrication production processes when manufacturing a welding and fabrication product
 | * insightful and justified evaluation of welding and fabrication production skills, procedures and a welding and fabrication product
 | * insightful and justified adaptation of welding and fabrication production plans, skills and procedures when manufacturing a welding and fabrication product
 | **A** |
| * consistent demonstration of welding and fabrication industry practices, and production skills and procedures when manufacturing a welding and fabrication product
 | * detailed and supported interpretation of welding and fabrication drawings and technical information when manufacturing a welding and fabrication product
 | * consistent selection of welding and fabrication industry practices, and production skills and procedures when manufacturing a welding and fabrication product
 | * consistent sequencing of welding and fabrication production processes when manufacturing a welding and fabrication product
 | * detailed and supported evaluation of welding and fabrication production skills, procedures and a welding and fabrication product
 | * detailed and supported adaptation of welding and fabrication production plans, skills and procedures when manufacturing a welding and fabrication product
 | **B** |
| * demonstration of welding and fabrication industry practices, and production skills and procedures when manufacturing a welding and fabrication product
 | * interpretation of welding and fabrication drawings and technical information when manufacturing a welding and fabrication product
 | * selection of welding and fabrication industry practices, and production skills and procedures when manufacturing a welding and fabrication product
 | * sequencing of welding and fabrication industry production processes when manufacturing a welding and fabrication product
 | * evaluation of welding and fabrication production skills, procedures and a welding and fabrication product
 | * adaptation of welding and fabrication production plans, skills and procedures when manufacturing a welding and fabrication product
 | **C** |
| * inconsistent demonstration of production skills and procedures when manufacturing an incomplete welding and fabrication product with obvious inaccuracies
 | * narrow and unsupported reference to drawings when manufacturing an incomplete welding and fabrication product with obvious inaccuracies
 | * inconsistent selection of production skills and procedures when manufacturing an incomplete welding and fabrication product with obvious inaccuracies
 | * inconsistent sequencing of production skills or procedures when manufacturing an incomplete welding and fabrication product with obvious inaccuracies
 | * narrow and unsupported evaluation of production skills, procedures, or an incomplete welding and fabrication product with obvious inaccuracies
 | * narrow and unsupported adaptations to production skills or procedures when manufacturing an incomplete welding and fabrication product with obvious inaccuracies
 | **D** |
| * incorrect demonstration of production skills and procedures when manufacturing aspects of a welding and fabrication product.
 | * superficial and unsubstantiated reference to drawings when manufacturing aspects of a welding and fabrication product.
 | * incorrect selection of production skills and procedures when manufacturing aspects of a welding and fabrication product.
 | * incorrect sequencing of production skills or procedures when manufacturing aspects of a welding and fabrication product.
 | * statements made about production skills, procedures or aspects of a welding and fabrication product.
 | * changes made to skills or procedures when manufacturing aspects of a welding and fabrication product.
 | **E** |

## Instrument-specific standards (C2): Project — Sheet metal working

| Demonstrate | Interpret | Select | Sequence | Evaluate | Adapt | 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 product
 | * insightful and justified interpretation of sheet metal working drawings and technical information when manufacturing a sheet metal product
 | * strategic selection of sheet metal working industry practices, and production skills and procedures when manufacturing a sheet metal product
 | * strategic sequencing of sheet metal working production processes when manufacturing a sheet metal product
 | * insightful and justified evaluation of sheet metal working production skills, procedures and a sheet metal product
 | * insightful and justified adaptation of sheet metal working production plans, skills and procedures when manufacturing a sheet metal product
 | **A** |
| * consistent demonstration of sheet metal working industry practices, and production skills and procedures when manufacturing a sheet metal product
 | * detailed and supported interpretation of sheet metal working drawings and technical information when manufacturing a sheet metal product
 | * consistent selection of sheet metal working industry practices, and production skills and procedures when manufacturing a sheet metal product
 | * consistent sequencing of sheet metal working production processes when manufacturing a sheet metal product
 | * detailed and supported evaluation of sheet metal working production skills, procedures and a sheet metal product
 | * insightful and justified adaptation of sheet metal working production plans, skills and procedures when manufacturing a sheet metal product
 | **B** |
| * demonstration of sheet metal working industry practices, and production skills and procedures when manufacturing a sheet metal product
 | * interpretation of sheet metal working drawings and technical information when manufacturing a sheet metal product
 | * selection of sheet metal working industry practices, and production skills and procedures when manufacturing a sheet metal product
 | * sequencing of sheet metal working industry production processes when manufacturing a sheet metal product
 | * evaluation of sheet metal working production skills, procedures and a sheet metal product
 | * adaptation of sheet metal working production plans, skills and procedures when manufacturing a sheet metal product
 | **C** |
| * inconsistent demonstration of production skills and procedures when manufacturing an incomplete sheet metal product with obvious inaccuracies
 | * narrow and unsupported reference to drawings when manufacturing an incomplete sheet metal product with obvious inaccuracies
 | * inconsistent selection of production skills and procedures when manufacturing an incomplete sheet metal product with obvious inaccuracies
 | * inconsistent sequencing of production skills or procedures when manufacturing an incomplete sheet metal product with obvious inaccuracies
 | * narrow and unsupported evaluation of production skills, procedures, or an incomplete sheet metal product with obvious inaccuracies
 | * narrow and unsupported adaptations to production skills or procedures when manufacturing an incomplete sheet metal product with obvious inaccuracies
 | **D** |
| * incorrect demonstration of production skills and procedures when manufacturing aspects of a sheet metal product.
 | * superficial and unsubstantiated reference to drawings when manufacturing aspects of a sheet metal product.
 | * incorrect selection of production skills and procedures when manufacturing aspects of a sheet metal product.
 | * incorrect sequencing of production skills or procedures when manufacturing aspects of a sheet metal product.
 | * statements made about production skills, procedures or aspects of a sheet metal product.
 | * changes made to skills or procedures when manufacturing aspects of a sheet metal product.
 | **E** |

## Instrument-specific standards (D2): Project — Structural engineering

| Demonstrate | Interpret | Select | Sequence | Evaluate | Adapt | 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 product
 | * insightful and justified interpretation of structural engineering drawings and technical information when manufacturing a structural engineering product
 | * strategic selection of structural engineering industry practices, and production skills and procedures when manufacturing a structural engineering product
 | * strategic sequencing of structural engineering production processes when manufacturing a structural engineering product
 | * insightful and justified evaluation of structural engineering production skills, procedures and a structural engineering product
 | * insightful and justified adaptation of structural engineering production plans, skills and procedures when manufacturing a structural engineering product
 | **A** |
| * consistent demonstration of structural engineering industry practices, and production skills and procedures when manufacturing a structural engineering product
 | * detailed and supported interpretation of structural engineering drawings and technical information when manufacturing a structural engineering product
 | * consistent selection of structural engineering industry practices, and production skills and procedures when manufacturing a structural engineering product
 | * consistent sequencing of structural engineering production processes when manufacturing a structural engineering product
 | * detailed and supported evaluation of structural engineering production skills, procedures and a structural engineering product
 | * detailed and supported adaptation of structural engineering production plans, skills and procedures when manufacturing a structural engineering product
 | **B** |
| * demonstration of structural engineering industry practices, and production skills and procedures when manufacturing a structural engineering product
 | * interpretation of structural engineering drawings and technical information when manufacturing a structural engineering product
 | * selection of structural engineering industry practices, and production skills and procedures when manufacturing a structural engineering product
 | * sequencing of structural engineering industry production processes when manufacturing a structural engineering product
 | * evaluation of structural engineering production skills, procedures and a structural engineering product
 | * adaptation of structural engineering production plans, skills and procedures when manufacturing a structural engineering product
 | **C** |
| * inconsistent demonstration of production skills and procedures when manufacturing an incomplete structural engineering product with obvious inaccuracies
 | * narrow and unsupported reference to drawings when manufacturing an incomplete structural engineering product with obvious inaccuracies
 | * inconsistent selection of production skills and procedures when manufacturing an incomplete structural engineering product with obvious inaccuracies
 | * inconsistent sequencing of production skills or procedures when manufacturing an incomplete structural engineering product with obvious inaccuracies
 | * narrow and unsupported evaluation of production skills, procedures, or an incomplete structural engineering product with obvious inaccuracies
 | * narrow and unsupported adaptations to production skills or procedures when manufacturing an incomplete structural engineering product with obvious inaccuracies
 | **D** |
| * incorrect demonstration of production skills and procedures when manufacturing aspects of a structural engineering product.
 | * superficial and unsubstantiated reference to drawings when manufacturing aspects of a structural engineering product.
 | * incorrect selection of production skills and procedures when manufacturing aspects of a structural engineering product.
 | * incorrect sequencing of production skills or procedures when manufacturing aspects of a structural engineering product.
 | * statements made about production skills, procedures or aspects of a structural engineering product.
 | * changes made to skills or procedures when manufacturing aspects of a structural engineering product.
 | **E** |

## Instrument-specific standards (E2): Project — Transport engineering

| Demonstrate | Interpret | Select | Sequence | Evaluate | Adapt | 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 product
 | * insightful and justified interpretation of transport engineering drawings and technical information when manufacturing a transport engineering product
 | * strategic selection of transport engineering industry practices, and production skills and procedures when manufacturing a transport engineering product
 | * strategic sequencing of transport engineering production processes when manufacturing a transport engineering product
 | * insightful and justified evaluation of transport engineering production skills, procedures and a transport engineering product
 | * insightful and justified adaptation of transport engineering production plans, skills and procedures when manufacturing a transport engineering product
 | **A** |
| * consistent demonstration of transport engineering industry practices, and production skills and procedures when manufacturing a transport engineering product
 | * detailed and supported interpretation of transport engineering drawings and technical information when manufacturing a transport engineering product
 | * consistent selection of transport engineering industry practices, and production skills and procedures when manufacturing a transport engineering product
 | * consistent sequencing of transport engineering production processes when manufacturing a transport engineering product
 | * detailed and supported evaluation of transport engineering production skills, procedures and a transport engineering product
 | * detailed and supported adaptation of transport engineering production plans, skills and procedures when manufacturing a transport engineering product
 | **B** |
| * demonstration of transport engineering industry practices, and production skills and procedures when manufacturing a transport engineering product
 | * interpretation of transport engineering drawings and technical information when manufacturing a transport engineering product
 | * selection of transport engineering industry practices, and production skills and procedures when manufacturing a transport engineering product
 | * sequencing of transport engineering industry production processes when manufacturing a transport engineering product
 | * evaluation of transport engineering production skills, procedures and a transport engineering product
 | * adaptation of transport engineering production plans, skills and procedures when manufacturing a transport engineering product
 | **C** |
| * inconsistent demonstration of production skills and procedures when manufacturing an incomplete transport engineering product with obvious inaccuracies
 | * narrow and unsupported reference to drawings when manufacturing an incomplete transport engineering product with obvious inaccuracies
 | * inconsistent selection of production skills and procedures when manufacturing an incomplete transport engineering product with obvious inaccuracies
 | * inconsistent sequencing of production skills or procedures when manufacturing an incomplete transport engineering product with obvious inaccuracies
 | * narrow and unsupported evaluation of production skills, procedures, or an incomplete transport engineering product with obvious inaccuracies
 | * narrow and unsupported adaptations to production skills or procedures when manufacturing an incomplete transport engineering product with obvious inaccuracies
 | **D** |
| * incorrect demonstration of production skills and procedures when manufacturing aspects of a transport engineering product.
 | * superficial and unsubstantiated reference to drawings when manufacturing aspects of a transport engineering product.
 | * incorrect selection of production skills and procedures when manufacturing aspects of a transport engineering product.
 | * incorrect sequencing of production skills or procedures when manufacturing aspects of a transport engineering product.
 | * statements made about production skills, procedures or aspects of a transport engineering product.
 | * changes made to skills or procedures when manufacturing aspects of a transport engineering product.
 | **E** |

## Instrument-specific standards (F2): Project — Manufacturing engineering

| Demonstrate | Interpret | Select | Sequence | Evaluate | Adapt | 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 product
 | * insightful and justified interpretation of manufacturing engineering drawings and technical information when manufacturing a manufacturing engineering product
 | * strategic selection of manufacturing engineering industry practices, and production skills and procedures when manufacturing a manufacturing engineering product
 | * strategic sequencing of manufacturing engineering production processes when manufacturing a manufacturing engineering product
 | * insightful and justified evaluation of manufacturing engineering production skills, procedures and a manufacturing engineering product
 | * insightful and justified adaptation of manufacturing engineering production plans, skills and procedures when manufacturing a manufacturing engineering product
 | **A** |
| * consistent demonstration of manufacturing engineering industry practices, and production skills and procedures when manufacturing a manufacturing engineering product
 | * detailed and supported interpretation of manufacturing engineering drawings and technical information when manufacturing a manufacturing engineering product
 | * consistent selection of manufacturing engineering industry practices, and production skills and procedures when manufacturing a manufacturing engineering product
 | * consistent sequencing of manufacturing engineering production processes when manufacturing a manufacturing engineering product
 | * detailed and supported evaluation of manufacturing engineering production skills, procedures and a manufacturing engineering product
 | * detailed and supported adaptation of manufacturing engineering production plans, skills and procedures when manufacturing a manufacturing engineering product
 | **B** |
| * demonstration of manufacturing engineering industry practices, and production skills and procedures when manufacturing a manufacturing engineering product
 | * interpretation of manufacturing engineering drawings and technical information when manufacturing a manufacturing engineering product
 | * selection of manufacturing engineering industry practices, and production skills and procedures when manufacturing a manufacturing engineering product
 | * sequencing of manufacturing engineering industry production processes when manufacturing a manufacturing engineering product
 | * evaluation of manufacturing engineering production skills, procedures and a manufacturing engineering product
 | * adaptation of manufacturing engineering production plans, skills and procedures when manufacturing a manufacturing engineering product
 | **C** |
| * inconsistent demonstration of production skills and procedures when manufacturing an incomplete manufacturing engineering product with obvious inaccuracies
 | * narrow and unsupported reference to drawings when manufacturing an incomplete manufacturing engineering product with obvious inaccuracies
 | * inconsistent selection of production skills and procedures when manufacturing an incomplete manufacturing engineering product with obvious inaccuracies
 | * inconsistent sequencing of production skills or procedures when manufacturing an incomplete manufacturing engineering product with obvious inaccuracies
 | * narrow and unsupported evaluation of production skills, procedures, or an incomplete manufacturing engineering product with obvious inaccuracies
 | * narrow and unsupported adaptations to production skills or procedures when manufacturing an incomplete manufacturing engineering product with obvious inaccuracies
 | **D** |
| * incorrect demonstration of production skills and procedures when manufacturing aspects of a manufacturing engineering product.
 | * superficial and unsubstantiated reference to drawings when manufacturing aspects of a manufacturing engineering product.
 | * incorrect selection of production skills and procedures when manufacturing aspects of a manufacturing engineering product.
 | * incorrect sequencing of production skills or procedures when manufacturing aspects of a manufacturing engineering product.
 | * statements made about production skills, procedures or aspects of a manufacturing engineering product.
 | * changes made to skills or procedures when manufacturing aspects of a manufacturing engineering product.
 | **E** |

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