Assessment Specifications

Level 1 Materials and Processing Technology 2024

Published in March 2024

General information

Domain:	Construction and Mechanical Technologies
Assessment event scheduling:	School managed assessment
Assessment timing:	Over-time submission
Assessment method:	Over-time assessment task
Assessment format:	Report
Assessment medium:	Digital submission
Final date of submission:	30 October 2024
Permitted file types:	Document file (PDF); optional audio file (MP3, WMA) and / or video file (AVI, M4V, MP4, MOV, WEBM, MTS)
Standards:	92014, 92015

Materials and Processing Technology subject page

National secondary examinations timetable

Information relating to all achievement standards

For each standard, candidates will be required to create a report in response to prompts provided by NZQA. Candidates may choose to respond to these prompts in writing or orally. The report should include supporting visual evidence such as:

- photographs
- research images
- images of stakeholder feedback
- design drawings.

The visual evidence should be presented as a document file (PDF) containing a slideshow, timeline, or flowchart.

The collection and selection of visual evidence and stakeholder feedback may be done by the candidate at any point before the assessment period. Relevant stakeholder feedback should be sought from at least two people or groups of people who either have expertise / experience in the candidate's technology area or are from the candidate's target market. Pre-existing sources (such as articles or videos) are not acceptable sources of stakeholder feedback.

Candidates are encouraged to write no more than 1200 words in total for each report. The reports should be submitted as a document file (PDF). Oral responses should not exceed 4 minutes and should be submitted as an additional audio file (MP3, WMA) or video file (AVI, M4V, MP4, MOV, WEBM, MTS).

Conditions of assessment

Candidates must complete their report in class during an assessment period selected by the school. The recommended period of assessment is 4 hours. Teacher involvement in candidates' production of work for submission is limited to:

- guiding and supporting candidates in understanding and implementing relevant technological processes
- guiding candidates to make well-informed, independent choices related to their design or feasible outcome
- providing guidance on the collection of stakeholder feedback
- assisting candidates in identifying credible and relevant research sources
- assisting candidates in collecting and choosing relevant visual evidence.

During the assessment period, candidates should be permitted access to the visual evidence and stakeholder feedback they have collected. Candidates may not bring any additional materials or access any other online or offline resources during the assessment period.

The use of chatbots, generative AI, paraphrasing tools, or other tools that can automatically generate content is not permitted and material generated by these tools should not be submitted as part of the candidate's work.

Authenticity

Teachers must closely supervise the process of evidence collection to ensure that candidates:

- do not copy from another person or source without appropriate acknowledgement
- do not receive guidance, scaffolding, instruction, assistance, or assessment conditions beyond what is specified as permissible in these Assessment Specifications.

Where a teacher cannot verify that the assessment submitted is the authentic work of the candidate, they must notify NZQA of a possible Candidate Breach of External Assessment.

Special Assessment Conditions

Refer to the NZQA website for further information.

Aromatawai Special Assessment Conditions

Submission requirements

The report should be submitted as a document file (PDF), with the option to include a supporting audio (MP3, WMA) or video (AVI, M4V, MP4, MOV, WEBM, MTS) file.

Note that only these file types may be submitted, and that other file types may not be able to be marked.

When responding orally, candidates should clearly indicate which prompt they are responding to and check that their voice is audible in the recording.

No more than two files per submission are permitted. The maximum (combined) file size that may be submitted is 5GB.

Candidates should refer to [Further Guidance for Submission Responses](#) for further information.

Refer also to other resources on the subject page of NZQA website.

Further submission instructions and authenticity requirements will be provided for schools Term 3, Week 1.

Specific information for individual achievement standards

Standard:	92014
Title:	Demonstrate understanding of sustainable practices in the development of a Materials and Processing Technology design
Version:	3
Number of credits:	4
Date for pre-release of material:	Term 3, Week 1

Before the assessment period, candidates are expected to have carried out a design process to the final design stage for a specific person, whānau, or community. It is expected that the candidate's design process will be underpinned by technological practice. This process should contribute to the development of a design for use in the assessment.

No physical outcome is required. Visual evidence collected by the candidate should document this process including the candidate's selection of materials / resources.

During the development of the design, candidates should consider how they could incorporate sustainable practices, including:

- selection and disposal of appropriate materials / resources
- using materials / resources economically
- other aspects of kaitiakitanga.

Candidates should also consider stakeholder feedback during the design process.

In their report, candidates are required to give a visual representation of the development of their design, using their responses to the prompts provided, as well as the visual evidence they have collected, to demonstrate their understanding of sustainable practices in the development of a Materials and Processing Technology design.

Standard:	92015
Title:	Demonstrate understanding of techniques selected for a feasible Materials and Processing Technology outcome
Version:	3
Number of credits:	4
Date for pre-release of material:	Term 3, Week 1

Before the assessment period, candidates are required to have trialled appropriate techniques relevant for use in a feasible outcome. It is expected that candidates will have identified at least two functional attributes of their feasible outcome and should have chosen at least two appropriate techniques per functional attribute to trial. The focus should be on what is relevant to their feasible outcome, not on the number of techniques trialled.

When choosing techniques to trial or selecting techniques from those they have trialled for use in their feasible outcome, candidates should also consider stakeholder feedback. The trialling of techniques is not time-bound.

In their report, candidates are required to use responses to the prompts provided, as well as the visual evidence they have collected, to demonstrate their understanding of techniques selected for a feasible Materials and Processing outcome.