

## Assessment Specifications

# Level 1 Materials and Processing Technology 2025

Published in October 2024

## General information

|                                   |                                          |
|-----------------------------------|------------------------------------------|
| <b>Domain:</b>                    | Construction and Mechanical Technologies |
| <b>Standards:</b>                 | 92014, 92015                             |
| <b>Assessment method:</b>         | Digitally submitted portfolio            |
| <b>Final date for submission:</b> | 29 October 2025                          |

[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 portfolio containing written reflections on their own technological practice as well as visual evidence that supports their reflection. Visual evidence on its own is not sufficient to meet the requirements of the standards.

Supporting visual evidence may include:

- photographs
- research images
- images of stakeholder feedback
- annotated designs.

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 portfolio.

Further information about digital external assessment can be found on the NZQA website.

[Digital external assessment](#)

## Conditions of assessment

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.

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.

## Submission requirements

ONE document file (PDF) may be uploaded for submission.

Note that only this file type may be submitted, and that other file types may not be accepted.

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

## Special assessment conditions

Refer to the NZQA website for further information:

[Aromatawai special assessment conditions](#)

## Specific information for individual achievement standards

|                           |                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>          | 92014                                                                                                                 |
| <b>Title:</b>             | Demonstrate understanding of sustainable practices in the development of a Materials and Processing Technology design |
| <b>Version:</b>           | 3                                                                                                                     |
| <b>Number of credits:</b> | 4                                                                                                                     |

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.

In their written reflection, candidates should consider how sustainable practices were applied in the development of their design. This could include:

- environmental impact (positive or negative)
- materials / resources choices, including possible alternatives
- disposal or reuse of waste materials / resources
- economical use of materials / resources (including choice of tools, equipment, or techniques)
- other aspects of kaitiakitanga related to environmental responsibilities.

Candidate portfolios should also include:

- specifications for their design, including physical and functional attributes, the person , whānau, or community the design is for, and the product's intended environment
- a visual representation, by annotation, of the development of the design, showing where in the design process sustainable practices were used
- feedback related to sustainable practices from at least two stakeholders, including who stakeholders were and how feedback was used in the development of the design
- sufficient visual evidence to support all parts of the response.

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|---------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>          | 92015                                                                                                       |
| <b>Title:</b>             | Demonstrate understanding of techniques selected for a feasible Materials and Processing Technology outcome |
| <b>Version:</b>           | 3                                                                                                           |
| <b>Number of credits:</b> | 4                                                                                                           |

Candidates are required to have trialled appropriate techniques relevant for use in a feasible outcome. 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. A feasible outcome is one that has the potential to be made. No physical outcome is required.

As part of their written reflection, candidates should select **two** functional attributes of their feasible outcome, and **for each** functional attribute:

- describe the functional attribute they have chosen
- describe at least two techniques trialled for the functional attribute
- explain how they decided which of these techniques would be most suitable for the feasible outcome.

Candidate portfolios should also include:

- design specifications of the feasible outcome, including physical and functional attributes, who the end user(s) are and the product's intended environment
- feedback related to the selection of techniques, from at least two stakeholders, including who the stakeholders were and how their feedback influenced the selection of techniques
- sufficient visual evidence to support all parts of the response.