

This assessment is based on a now-expired version of the achievement standard and may not accurately reflect the content and practice of external assessments developed for 2025 onwards.

1

92014



Mana Tohu Mātauranga o Aotearoa
New Zealand Qualifications Authority

Level 1 Materials and Processing Technology 2024

92014 Demonstrate understanding of sustainable practices in the development of a Materials and Processing Technology design

Credits: Four

ASSESSMENT TASK

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of sustainable practices in the development of a Materials and Processing Technology design.	Examine sustainable practices in the development of a Materials and Processing Technology design.	Evaluate sustainable practices in the development of a Materials and Processing Technology design.

Refer to this document to respond to the task for Materials and Processing Technology 92014.

Check that this document includes page 2.

Do not use chatbots, generative AI, or other tools that can automatically generate content.

DO NOT TAKE THESE ASSESSMENT MATERIALS OUT OF THE ASSESSMENT ROOM.

INSTRUCTIONS

Respond to the following task about how you applied sustainable practices in the development of a design. Support your answers with text and images. Your evidence should be presented in the form of a slideshow or visual timeline. You should aim to write no more than **1200 words in total**. If you choose to respond orally, your response should be **no longer than 4 minutes**.

ASSESSMENT TASK

(a) Provide an image or images of your design and briefly describe its specifications, including physical and functional attributes, the person/whānau/community your design is for, and your product's intended environment.

(b) How did you apply sustainable practices during the development of your design?

Consider one or more of the following:

- The impact of your product on the environment (positive or negative).
- How your research into sustainable practices informed the development of your design.
- The reason for your choice of materials or resources, including possible alternatives.
- The disposal or reuse of waste materials or resources.
- The economical use of materials or resources (including choice of tools, equipment, or techniques).
- Other aspects of kaitiakitanga related to environmental responsibilities.

(c) Using text and images, give a visual representation of the development of your design, showing where in the design process you used sustainable practices.

(d) During the development of your design, you will have consulted with two or more different stakeholders about relevant sustainable practices.

(i) **Who** were the different stakeholders you talked to about relevant sustainable practices?

(ii) **What** did the stakeholders discuss with you in relation to sustainable practices?

(iii) **How** did you use that information to develop your design?