

Assessment Schedule – 2021

Technology: Demonstrate understanding of material development (91613)

Assessment Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<p>Demonstrating understanding of material development involves:</p> <ul style="list-style-type: none"> explaining the development of a material designed to enhance a product's performance explaining the implications of the material on the design, development, implementation, maintenance, and disposal of products. 	<p>Demonstrating in-depth understanding of material development involves:</p> <ul style="list-style-type: none"> explaining how the material enhanced the performance of a product explaining how the material impacts on the design, development, implementation, maintenance, and disposal of products. 	<p>Demonstrating comprehensive understanding of material development involves.</p> <ul style="list-style-type: none"> explaining the concepts and processes employed in the development of a material.

Evidence

N1	N2	A3	A4	M5	M6	E7	E8
Not enough evidence to show understanding, and / or is substantially reproduced with little mediation by candidate.	Report is substantially produced by the candidate but demonstrates little understanding. One part of the required response may be completely missing, or several parts may be weak.	Describes as required to show understanding. Some aspects may be partial or weak.	Describes as required to clearly show understanding.	Explains as required to show in-depth understanding. Some aspects may be partial or weak.	Explains to clearly establish in-depth understanding.	Discusses to show comprehensive understanding. Some aspects may be partial or weak.	Fully discusses to clearly show comprehensive understanding.

N0 = No response; no relevant evidence.

Cut Scores

Not Achieved	Achievement	Achievement with Merit	Achievement with Excellence
0 – 2	3 – 4	5 – 6	7 – 8

The final grade is determined using professional judgement based on a holistic examination of the evidence provided against the criteria.

Length and legibility

Where the candidate has provided a brief report, the report should not be penalised because of length.

Candidate work in excess of 10 pages must not be marked. In the case that the candidate has used a small font, the marker should make their own judgement about where to stop marking. This judgement should be made relative to 10 pages of text in 12pt Arial font, with 2.5cm margins.

Where work is illegible, it cannot be marked.

Digital submissions that cannot be read cannot be marked.

“Demonstration of understanding”

The report must use information to demonstrate understanding. The marker must exercise professional judgement to decide if it does so. The following guidance is provided to assist in making this judgement.

- The report demonstrates understanding if it can be described wholly or substantially by one or more of the statements in the left-hand column.
- The report does not demonstrate understanding if it can be described wholly or substantially by one or more of the statements in the right-hand column.
- If the report is comprised of both used and reproduced information, the marker must decide if it meets the standard when the reproduced information is ignored.

Evidence of <u>use</u> of information	Evidence of <u>reproduction</u> of information
<p>The report describes and explains the candidate’s use, in their practice, of information relating to the standard.</p> <p>Information from the candidate’s practice, research, the practice of others, and teaching, is related to the candidate’s technological experiences.</p> <p>The report describes experiences that could be expected to come from a course of instruction derived from the Technology Learning Area in the <i>New Zealand Curriculum</i>.</p> <p>These could include but are not limited to</p> <ul style="list-style-type: none"> • testing and trialling within a modelling process • developing a conceptual statement • developing a conceptual design • development of a brief • material selection • refinement of a brief • development of a prototype • development of a one-off solution. <p><i>Further examples may be added.</i></p> <p>Information from research, the practice of others, or teaching is reported in the candidate’s own voice.</p> <p>Referenced, complex research information unchanged by paraphrase is related to other information in a manner that unambiguously constructs meaning (very rare).</p>	<p>Information is presented in isolation from the candidate’s technological experiences.</p> <p>Little or nothing is offered to suggest the information is related to a course of instruction at Level 8 of the <i>New Zealand Curriculum</i>.</p> <p>Information is not in the candidate’s voice. The word choice, sentence structure, sentence length, punctuation etc. are not what a candidate could be expected to produce.</p> <p>Unreferenced, complex, research information is presented as though it is the candidate’s own work.</p>