

## Achievement Standard

<b>Subject Reference</b>	Construction and Mechanical Technologies 1.20		
<b>Title</b>	Implement basic procedures using resistant materials to make a specified product		
<b>Level</b>	1	<b>Credits</b>	6
		<b>Assessment</b>	Internal
<b>Subfield</b>	Technology		
<b>Domain</b>	Construction and Mechanical Technologies		
<b>Status</b>	Registered	<b>Status date</b>	20 January 2011
<b>Planned review date</b>	31 December 2020	<b>Date version published</b>	17 November 2016

This achievement standard requires the implementation of basic procedures using resistant materials to make a specified product.

### Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> <li>Implement basic procedures using resistant materials to make a specified product.</li> </ul>	<ul style="list-style-type: none"> <li>Skilfully implement basic procedures using resistant materials to make a specified product.</li> </ul>	<ul style="list-style-type: none"> <li>Efficiently implement basic procedures using resistant materials to make a specified product.</li> </ul>

### Explanatory Notes

- 1 This achievement standard is derived from Level 6 of the Technology learning area in *The New Zealand Curriculum*, Learning Media, Ministry of Education, 2007; and is related to the material in the *Teaching and Learning Guide for Technology*, Ministry of Education at <http://seniorsecondary.tki.org.nz>.

Further information can be found at <http://www.technology.tki.org.nz/>.

Appropriate reference information is available in *Safety and Technology Education: A Guidance Manual for New Zealand Schools*, Ministry of Education at <http://technology.tki.org.nz/Curriculum-support/Safety-and-Technology-Education>, and the Health and Safety at Work Act 2015.

This standard is also derived from *Te Marautanga o Aotearoa*. For details of *Te Marautanga o Aotearoa* achievement objectives to which this standard relates, see the [Papa Whakaako](#) for the relevant learning area.

- 2 *Implement basic procedures using resistant materials to make a specified product* involves:
- following a set of techniques to make a product that meets specifications
  - undertaking a range of appropriate tests to demonstrate the product meets specifications
  - applying techniques that comply with relevant health and safety regulations.
- Skilfully implement basic procedures using resistant materials to make a specified product* involves:
- showing independence and accuracy in the execution of the techniques and tests.
- Efficiently implement basic procedures using resistant materials to make a specified product* involves:
- undertaking techniques and tests in a manner that economises time, effort and materials.
- 3 *Specified product* refers to a product and its relevant specifications, including material specifications. The specifications must be of sufficient rigour to allow the student to meet the standard. The specifications, material/s and techniques to be used and a step-by-step guide need to be determined prior to the product being made. They may be teacher-given or developed in negotiation with the student.
- 4 *Basic procedures* are those that require the student to perform a sequence of techniques as instructed to make a product.
- 5 *Resistant materials* in this achievement standard may include but are not limited to – wood, composites, metal, alloys, ceramics, plastics.
- 6 Techniques include:
- one or more of measuring/marketing out
  - one or more of sizing/shaping/forming
  - one or more of joining/assembling
  - one or more of finishing/detailing/tuning.
- 7 Tests may include but are not limited to – measurement of tolerances, performance testing, fitting, visual checks.
- 8 Conditions of Assessment related to this achievement standard can be found at <http://ncea.tki.org.nz/Resources-for-Internally-Assessed-Achievement-Standards>.
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### Replacement Information

This achievement standard and AS91059 replaced unit standard 7522 and unit standard 7524.

This achievement standard replaced unit standard 7523.

**Quality Assurance**

- 1 Providers and Industry Training Organisations must have been granted consent to assess by NZQA before they can register credits from assessment against achievement standards.
- 2 Organisations with consent to assess and Industry Training Organisations assessing against achievement standards must engage with the moderation system that applies to those achievement standards.

Consent and Moderation Requirements (CMR) reference

0233