

## 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 2014	<b>Date version published</b>	20 January 2011

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 standard is derived from the Level 6 achievement objectives from 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, 2010 at <http://seniorsecondary.tki.org.nz>.

Appropriate reference information is available in *Safety and Technology Education: A Guidance Manual for New Zealand Schools*, Learning Media, Ministry of Education, 1998; and The Health and Safety in Employment Act 1992.

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

- 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/marking 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://www.tki.org.nz/e/community/ncea/conditions-assessment.php>.
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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 be accredited by NZQA before they can register credits from assessment against achievement standards.
- 2 Accredited providers and Industry Training Organisations assessing against achievement standards must engage with the moderation system that applies to those achievement standards.

Accreditation and Moderation Action Plan (AMAP) reference

0233