Number	AS91620	Version	2		Page 1 of 2	
Achievement Standard						
Subject Reference		Construction a	Construction and Mechanical Technologies 3.20			
Title		•	Implement complex procedures to integrate parts using resistant materials to make a specified product			
Level	3	Credits	6	Assessment	Internal	
Subfield	Technolog	Technology				
Domain	Construction and Mechanical Technologies					
Status		Registered	Status date		4 December 2012	
Planned review date 31		31 December 2016	Date versio	n published	12 December 2013	

This achievement standard requires implementing complex procedures to integrate parts using resistant materials to make a specified product.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
Implement complex	 Skilfully implement	• Efficiently implement
procedures to integrate	complex procedures to	complex procedures to
parts using resistant	integrate parts using	integrate parts using
materials to make a	resistant materials to make	resistant materials to make
specified product.	a specified product.	a specified product.

Explanatory Notes

1 This achievement standard is derived from Level 8 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 <u>http://seniorsecondary.tki.org.nz</u>.

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 in Employment Act 1992.

- 2 Implement complex procedures to integrate parts using resistant materials to make a specified product involves:
 - preparation of parts for integration
 - preparation of the integration environment

- integrating parts to ensure product meets specifications
- ongoing testing against reference points to reduce error in the integration of parts
- undertaking preparation, integration and testing to comply with relevant health and safety regulations.

Skilfully implement complex procedures to integrate parts using resistant materials to make a specified product involves:

• showing independence and accuracy in undertaking procedures.

Efficiently implement complex procedures to integrate parts using resistant materials to make a specified product involves:

- undertaking procedures in a manner that economises time, effort and materials.
- 3 *Complex procedures* require the student to select and use a variety of techniques for the precise integration of parts.
- 4 *Resistant materials* in this standard may include but are not limited to: wood, composites, metal, alloys, ceramics, and plastics.
- 5 Specified product refers to a product with specifications that require the integration of parts to enable the product to function as intended. The specifications must be of sufficient rigour to allow the student to meet the standard. The specifications need to be agreed prior to the product being made. They may be teacher-given or developed in negotiation with the student.
- 6 Integration environment refers to the workspaces involved and may include tools, equipment, and assembly aids.
- 7 Reference points may include but are not limited to: datum lines, centres, centrelines, prepared edges, and surfaces.
- 8 Conditions of Assessment related to this achievement standard can be found at <u>http://ncea.tki.org.nz/Resources-for-aligned-standards/Technology/Level-3-</u><u>Technology</u>.

Replacement Information

This achievement standard replaced unit standard 7531.

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