

## Achievement Standard

<b>Subject Reference</b>	Design and Visual Communication 3.34		
<b>Title</b>	Produce working drawings to communicate production details for a complex design		
<b>Level</b>	3	<b>Credits</b>	6
		<b>Assessment</b>	External
<b>Subfield</b>	Technology		
<b>Domain</b>	Design and Visual Communication		
<b>Status</b>	Registered	<b>Status date</b>	4 December 2012
<b>Planned review date</b>	31 December 2020	<b>Date version published</b>	17 November 2016

This achievement standard involves producing working drawings to communicate production details for a complex design.

### Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> <li>Produce working drawings to communicate production details for a complex design.</li> </ul>	<ul style="list-style-type: none"> <li>Produce working drawings to clearly communicate production details for a complex design.</li> </ul>	<ul style="list-style-type: none"> <li>Produce working drawings to effectively communicate production details for a complex design.</li> </ul>

### Explanatory Notes

- 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 <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 *Produce working drawings to communicate production details for a complex design* involves:
- selecting views and modes informed by research and the nature of the design
  - using appropriate conventions and presentation techniques to generate a set of related drawings that communicates details for the assembly and/or construction of the design.

*Produce working drawings to clearly communicate production details for a complex design* involves:

- accurately applying techniques to generate a precise set of related drawings that communicates details for the assembly and/or construction of the design.

*Produce working drawings to effectively communicate production details for a complex design* involves:

- selecting a series of views and modes to generate a cohesive set of related drawings that communicates details that would enable the assembly and/or construction of the design.

- 3 *Working drawings to communicate production details* are a set of related 2D and 3D (and/or 4D) drawings and/or models that show exterior and interior detail of the components and information related to the construction and assembly of the complex design.

Working drawings can be constructed using either traditional drawing equipment and/or computer applications using a range of modes (eg 2D, 3D, 4D).

- 4 *A complex design* refers to a spatial or product design with multiple components. The production details to be communicated about the complex design must be decided by the students.
- 5 Conventions associated with drawing define such things as: line types (eg construction lines, outlines, and section lines), drawing and text layout, and dimensioning. Conventions include those which are commonly applied within a community of practice eg engineering (eg SAA/SNZ HB1:1994), or architecture – building and landscaping (eg NZS/AS 1100.101:1992 Technical drawing – General principles; NZS/AS 1100.301:1985 Technical drawing – Architectural drawing).
- 6 Assessment Specifications for this achievement standard can be accessed through the Technology Resources page found at <http://www.nzqa.govt.nz/qualifications-standards/qualifications/ncea/subjects/>.

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### Replacement Information

This achievement standard and AS91630 replaced unit standard 7514, AS90737, and AS90738.

This achievement standard replaced unit standard 7515 and unit standard 19355.

**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