



Australian Government

AURATA003 Produce drawings from design concepts

Release: 1

AURATA003 Produce drawings from design concepts

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to produce detailed drawings of objects from design concepts. It involves creating drawings or hand drawn sketches for items, such as mounting brackets for attaching accessories or components to vehicles or equipment. The unit does not involve producing computer-aided design (CAD) drawings.

It applies to those working in the automotive service and repair industry.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

Competency Field

Common

Unit Sector

Technical

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
1. Prepare to produce drawing	1.1 Drawing purpose and design concept are defined and clarified according to workplace procedures 1.2 Drawing specifications are identified and confirmed with appropriate persons 1.3 Operational characteristics of object to be drawn are identified 1.4 Required drawing resources are selected

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
2. Draft initial drawing	2.1 <i>Initial drawing is drafted</i> from prototype model sketch and specifications 2.2 Production notes or special requirements are documented 2.3 Draft drawing is checked for accuracy against specifications and concept prototype drawing, and required approval is sought
3. Complete final drawing	3.1 Final drawing is compared to original design concepts and modified as required within scope of own authority 3.2 Drawing is checked and approved according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance and are not explicit in the performance criteria.

Skills	Description
Learning skills to:	- locate drawing specifications and other relevant information efficiently - keep up-to-date with drawing and sketching processes and new and emerging electronic drawing aids.
Reading skills to:	interpret drawing objectives and specifications and technical information.
Writing skills to:	legibly and accurately produce drawing requirements and material lists.
Oral communication skills to:	communicate with customers and others in the workplace.
Numeracy skills to:	calculate and list dimensions and specifications in drawings.

Range of Conditions

This section specifies work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Drawing specifications</i> must include:	• dimensions, angles, shapes and component finish • fabrication processes • measurements and specifications • quality and technical information.
<i>Resources</i> must include:	• design concept brief and associated specifications • drawing equipment • object or sub-assembly to be fabricated and drawn.
<i>Drafting initial drawing</i> must include:	• appropriate object dimensions • connection of dimensional points to match drawing.

Unit Mapping Information

Equivalent to AURATA2003 Produce drawings from design concepts

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

Assessment Requirements for AURATA003 Produce drawings from design concepts

Modification History

Release	Comment
Release 1	New unit of competency.

Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standard defined in the unit's elements and performance criteria, range of conditions and foundation skills:

- produce three detailed technical drawings of objects, automotive products or components from design concepts specific to a vehicle or equipment application
- produce above drawings in both two- and three-dimensional form, and include dimensional points, fabrication notes and product finish requirements
- draw above drawings manually or using electronic drawing aids with appropriate software.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- common automotive terminology
- techniques for translating design concepts into sketches and detailed technical drawings
- technical drawing procedures and specifications
- procedures for making and listing drawing measurements and notes
- procedures for checking, documenting and storing drawings.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to drawings that they have produced from design concepts, e.g. drawings or sketches.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- object, product or sub-assembly to be fabricated and drawn
- design concept brief and associated design specifications
- drawing work plans and instructions
- technical drawing procedures and specifications
- manual drawing equipment or computer and appropriate software.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>