



Australian Government

AUMATA008 Produce drawings manually

Release: 1

AUMATA008 Produce drawings manually

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMATA5008 Produce drawings manually

Application

This unit describes the skills and knowledge required to produce drawings using manual drafting techniques.

It applies to those in an automotive and related component manufacturing environment.

No licensing, legislative 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 italicised text is used, further information is detailed in the range of conditions section
1. Plan drawings	1.1 Project objectives and design brief are defined and clarified according to workplace procedures 1.2 Drafting requirements and processes are clarified based on project objectives and specifications 1.3 <i>Drawing specifications</i> are identified and confirmed with appropriate personnel 1.4 Required drawing <i>resources</i> are selected
2. Prepare and check	2.1 Critical dimensions and data for the required drawing are

Elements	Performance Criteria
drawings	established 2.2 Preliminary sketches are prepared and reviewed with appropriate personnel 2.3 Drawings are prepared according to project objectives, specifications and workplace procedures 2.4 Drawings are checked against project objectives, specifications and workplace quality standards, and necessary changes are made
3. Document drawings	3.1 Drawings and technical information are documented according to project requirements and workplace procedures 3.2 Drawings are processed for approval by appropriate personnel 3.3 Drawings and associated documentation are stored according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Skills	Description
Reading skills to:	- interpret drawing objectives and specifications - interpret technical information.
Writing skills to:	- produce drawing requirements and material lists - list dimensions and specifications in drawings.
Oral communication skills to:	communicate with customers and others in the workplace.
Numeracy skills to:	calculate dimensions and specifications.
Digital literacy skills to:	use drawing equipment.
Initiative skills to:	change work conditions to suit drawing requirements.
Planning and organising skills to:	- manage given timelines - prepare drawing materials and equipment.
Problem-solving skills to:	identify where drawings do not comply with specifications.

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:	• manufacturing processes • measurements and specifications • quality and technical information.
<i>Resources</i> must include:	• design brief and associated design specifications • drawing equipment • product and sub-assembly to be designed.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=bd587669-08b3-4cd5-85f0-f9fa0c6304c1>

Assessment Requirements for AUMATA008 Produce drawings manually

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Performance Evidence

Before competency can be determined, individuals must have competently produced manual drawings on a minimum of three occasions.

Individuals must demonstrate they can:

- comply with workplace drawing standards
- comply with Australian drawing standards
- maintain a working knowledge of work systems and manufacturing practices
- apply workplace requirements in relation to:
 - production goals
 - work quality goals
 - changing work requirements
 - applying problem-solving techniques
- clarify drawing requirements
- select drawing equipment
- make required measurements
- prepare drawings manually
- check, document and store drawings.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- drawing standards
- drawing procedures, specifications, schedules and work plans
- processes to clarify manual drafting requirements
- procedures for making and listing drawing measurements
- procedures for checking, documenting and storing drawings.

Assessment Conditions

Assessors must satisfy SNR/AQTF assessor requirements.

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

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to drawings that have been produced manually.

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

The following resources must be made available:

- automotive manufacturing workplace or simulated workplace
- product or sub-assembly to be designed
- design brief and associated design specifications
- drawing work plan and instructions
- drawing specifications
- drawing equipment
- workplace drawing procedures.

Links

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