



Australian Government

Assessment Requirements for MEM09208

Detail fasteners and locking devices in mechanical drawings

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM09208A Detail fasteners and locking devices in mechanical drawings.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- determining purpose and scope for drawing requirements utilising all available information
- identifying system requirements for fasteners and locking devices based on their features, uses and thread types for inclusion in the drawing on at least two occasions
- producing drawings to AS 1100.101 Technical drawing - General principles, detailing fasteners and locking devices on at least two occasions
- verifying parameters of the design brief with appropriate personnel
- consulting with appropriate support services and presenting drawing
- documenting and storing drawings in accordance with SOPs.

Note: Where a volume and/or frequency is not specified, demonstration must be provided at least once.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures
- different approaches to drawing
- copyright and intellectual property issues and legislation in relation to drawing
- quality assurance procedures
- organisational standards for drawing in relation to accuracy, presentation and inclusion of all relevant information
- personnel and support services appropriate to drawing requirements
- order of drawing process
- organisational checking procedures for drawings
- layout and presentation requirements
- standards applicable to the work to be undertaken

- process of storing paper drawings and electronic drawing files
- International System of Units (SI)
- different types of fasteners used in engineering
- different types of location and locking devices used in engineering
- terminology associated with the preparation of mechanical drawings
- different types of thread forms, types and sizes
- types of nuts and uses for locking purposes
- manufacturing processes required to create a drilled and tapped hole and a threaded feature
- grades of bolts and their applications.

Assessment Conditions

- Assessors must:
 - have vocational competency to detail fasteners and locking devices in mechanical drawings at least to the level being assessed with relevant industry knowledge and experience
 - satisfy the assessor requirements in the Standards for Registered Training Organisations 2015 or its replacement and comply with the National Vocational Education and Training Regulator Act 2011, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires.
- Where possible, assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions that cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required including relevant workplace procedures, product and manufacturing specifications.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>