



Australian Government

Assessment Requirements for MEM09226

Detail structural steel members

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MSATCS502A Detail structural steel members.

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
- complying with requirements prescribed by legislation, awards, agreements and conditions of employment
- assessing design information for adequacy of information needed for structural steel detailing
- liaising with architects and engineers
- assessing scope of structural steel detailing tasks and priorities
- interpreting design drawings, sketches and schedules to determine dimensions, layouts, types and grades of materials
- interpreting manufacturer catalogues and product information
- detailing structural steel members in steel framed constructions on at least two occasions
- communicating at all levels about technical issues related to patterns and specifications.

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
- architectural and engineering design drawings including standard symbols, terms, abbreviations and sketches
- connections used in structural steel construction
- standard structural steel detailing parameters
- beam dimensions
- design capacity tables as per the publication 'Design Capacity Tables for Structural Steel, Volume 1: Open Sections' published by the Australian Steel Institute
- difference between design and detail drawing processes
- application and purpose of direction marks
- structural steel members used in steel framed constructions
- connections, components and fixings used in structural steel construction

- drawing office procedures
- fabrication processes and procedures
- standard welding symbols as described in AS 1101.3 Graphical symbols for general engineering - Welding and non-destructive testing examination
- Australian steel structures limit state design code's (AS 4100, Steel structures) requirements in so far as they impact on steel detailing.

Assessment Conditions

- Assessors must:
 - have vocational competency in detailing structural steel members 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>