



Australian Government

Assessment Requirements for MEM22014

Coordinate engineering-related manufacturing operations

Release: 1

Assessment Requirements for MEM22014 Coordinate engineering-related manufacturing operations

Modification History

Release 1. Supersedes and is equivalent to MEM22014A Coordinate engineering-related manufacturing operations.

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
- identifying equipment and process capacity from information supplied by designers and suppliers
- preparing production or project plan on at least two occasions in consultation with relevant stakeholders to meet work health and safety (WHS), quality, demand and delivery requirements within capacity and budget constraints
- applying procedures to ensure compliance of manufacturing operations with WHS, environmental and other regulatory requirements
- reviewing and monitoring facilities and services on at least two occasions
- maintaining records, reporting and documenting in accordance with standard operating procedures.

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
- manufacturing management systems
- relevant stakeholders
- sources of professional and technical assistance
- forecasting, scheduling and production control procedures
- production systems, including assembly and process layouts, material and product flows, automation and control systems
- WHS requirements, codes of practice, regulations, standards, regulatory requirements, risk management, current safe work method statements (SWMS), safety data sheets (SDS) and work permits
- budgeting, costing and control measures

- quality and process control measures
- asset maintenance techniques and management options
- continuous improvement procedures
- problem-solving and decision-making, systems thinking, contingency and constraints management as applied to manufacturing
- requirements for and functions of technical documentation, records, graphics and specifications
- sustainability implications of manufacturing operations, products and processes, including social, environmental, resources and economic implications
- reporting and documenting procedures used in manufacturing, including role of standard operating procedures (SOPs), engineering drawings and process control charts
- current options and trends in software
- continuous improvement processes and procedures
- lean manufacturing principles
- typical constraints
- sustainability considerations.

Assessment Conditions

- Assessors must:
 - have vocational competency in coordinating engineering-related manufacturing operations 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.
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Links

Companion Volume implementation guides are found in VETNet -

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