Assessment Requirements for MEM30019 Use resource planning software systems in manufacturing

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Modification History

Release 1. Supersedes and is equivalent to MEM30019A Use resource planning software systems in manufacturing.

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:

- operating the computer hardware
- using enterprise resource planning (ERP) planning software systems on at least two occasions
- using material requirements (or resource) planning (MRP) planning software systems on at least two occasions
- interpreting the data and other information produced by the software systems on at least two occasions
- prioritising actions resulting from the information received.

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:

- expertise needed to operate process
- hierarchy of ERP, MRP systems and operation
- information available from, and business activities exercised by or through ERP and MRP systems
- closed loop manufacturing system basics
- business planning including demand and resources
- master production scheduling (MPS)
- material requirements planning (MRP)
- capacity requirement planning (CRP)
- system inputs:
    - bills of material
    - need for accuracy
    - inventory statistics
    - planning data

- - introduction to capacity management
  - production activity control
- system outputs:
  - planned orders
  - order action
  - firm/tentative
- just in time (JIT):
  - techniques
  - production smoothing
  - single unit flow
  - Kanban
  - set-up time reduction including single-minute exchange of die (SMED)
  - lead time reduction
- production control methods:
  - types
  - master schedules
  - control by exception
  - computer control
  - visual control
  - combination MRP2 and Kanban system
  - shop floor including day-to-day and Kanban
- scheduling:
  - techniques
  - order release
  - policies
  - centralised
  - decentralised
- inventory control:
  - raw
  - work-in-process
  - finished goods
  - lean manufacture and inventory
  - inventory costs
  - procurement
  - material control techniques
  - ABC (Pareto) analysis
  - economic order quantity (EOQ)
  - min-max systems
  - Kanban and just in time
  - cycle counting.

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Assessment Conditions

- Assessors must:
    - have vocational competency in using resource planning software systems in manufacturing 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