



Australian Government

Assessment Requirements for MEM18071 Connect and disconnect fluid conveying system components

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM18071B Connect/disconnect fluid conveying system components

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria on at least two (2) occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- identifying and interpreting specifications and obtaining relevant data with respect to connecting and disconnecting fluid conveying system components
- identifying potential hazardous situations and carrying out a risk assessment and isolating, tagging, locking off and displaying signage using appropriate procedures
- locating faulty component, neutralising pressures and disconnecting and removing fluid conveying components and assemblies using appropriate techniques, tools and equipment and sealing open system with appropriate sealing materials
- selecting replacement components from manufacturer catalogues and other reference sources
- performing pressure testing on fluid conveying assemblies and individual components using fluid power principles and undertaking condition and serviceability assessment and storing components/assemblies according to industry standards
- connecting components and assemblies to equipment, removing tagged out equipment, signage and safety blocking devices
- testing equipment and fluid conveying systems using appropriate test equipment and rigs for compliance to manufacturer and industry standards
- completing routine reports and certification procedures.

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 and use of personal protective equipment (PPE)
- different sources of stored energy and their applications
- work health and safety (WHS) responsibilities of customer and self
- safety/security lock-off devices and signage and procedures and reasons for installing lock-off devices and signage
- basic functions of fluid power systems, including:

- effects of heat and contamination
- pressures
- flow rates and temperatures
- hose strength and size
- effect of media on hoses
- test
- operational and burst pressures
- techniques and safety practices for pressure testing
- tools, techniques and procedures for removal of components
- troubleshooting techniques
- standard and specific sealing materials and techniques
- different fluid conveying parts and their function
- techniques and safety practices for pressure testing
- criteria for assessment
- methods of cleaning, sealing and storage
- techniques and criteria for connection and confirming connection
- techniques, procedures and safety practices. including neutralisation of pressures.

Assessment Conditions

- Assessors must:
 - have vocational competency in connecting and disconnecting fluid conveying system components 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. This must 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>

