



Australian Government

Assessment Requirements for MEM11023 Operate a bridge and gantry crane

Release: 1

Assessment Requirements for MEM11023 Operate a bridge and gantry crane

Modification History

Release 1. Supersedes and is equivalent to MEM11023A Operate a bridge and gantry crane

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 safety signs, manufacturers' specifications and data, including maximum load information to ensure crane is not overloaded
- complying with work health and safety (WHS) licensing legislation
- communicating and working safely with others in the work area, including the use of hand signals, whistles and two-way radios
- applying risk assessment and management procedures (particular awareness of the risks associated with overhead powerlines/electrical cables, access to cabin, other personnel and equipment in the work area, including vehicles and clear access whilst travelling)
- conducting pre- and post-operational checks of the bridge and gantry crane
- planning load transfer path for safety and efficiency in a manufacturing related environment
- operating a bridge and gantry crane, including all functions to their maximum capacity in the lifting and moving of loads to the maximum rated capacity, in conjunction with other associated personnel
- applying appropriate mathematical procedures for estimation of loads.

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)
- appropriate mathematical procedures for estimation of loads
- bridge and gantry crane characteristics
- federal, state or territory WHS legislation, standards and codes of practice relevant to the full range of processes for the crane class
- emergency procedures, including escape routes
- hierarchy of hazard identification and control
- organisational and workplace standards, requirements, policies and procedures for conducting operations for the crane class

- typical hazards in manufacturing related environments, including:
 - process areas that must be avoided, ceased or special procedures adopted before load transfers occur, including welding, machining, melting and casting
 - transfers across areas frequented by personnel, including workstations and walkways
 - hazardous loads, including hot or liquid metals, chemicals, heavy and non-standard shaped loads
- procedures for the recording, reporting and maintenance of workplace records and information
- typical routine problems encountered in the operation of the crane and equipment and adjustments required for correction.

Assessment Conditions

- Assessors must:
 - have vocational competency in operating a bridge and gantry crane 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>