



Australian Government

MEM11010 Operate mobile load shifting equipment

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Modification History

Release	Comments
2	Unit codes updated in Application to reflect status.
1	This unit of competency was first released in MEM Manufacturing and Engineering Release 2.0.

Application

This unit of competency defines the skills and knowledge required to operate mobile load shifting equipment, including planning, moving and placing loads and shutting down and securing equipment after operation where knowledge of codes and signals is not required in workshops and/or on-site locations.

Where the selection and use of hand tools is required unit MEM18001 Use hand tools should also be selected.

Where the use of a forklift is required unit TLILIC0003 Licence to operate a forklift truck should also be selected.

Where the use of an order picking forklift is required unit TLILIC0004 Licence to operate an order picking forklift truck should also be selected.

Where the use of a vehicle loading crane with a capacity of 10 metre tonnes and above is required unit TLILIC0024 Licence to operate a vehicle loading crane (capacity 10 metre tonnes and above) should also be selected.

Band: A

Unit Weight: 4

Licensing/Regulatory Information

Depending on the equipment being used a high risk work licence may be required and users should check with the relevant state and national authorities.

Pre-requisite unit(s)

MEM11011	Undertake manual handling
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information

Competency field(s)

Materials handling

Unit sector(s)

N/A

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Determine job requirements	1.1 Follow standard operating procedures (SOPs) 1.2 Comply with work health and safety (WHS) requirements at all times 1.3 Use appropriate personal protective equipment (PPE) in accordance with SOPs 1.4 Identify job requirements from specifications, job sheets or work instructions
2. Prepare to shift loads	2.1 Inspect work area to identify hazards, and implement appropriate prevention/control measures to avoid hazards 2.2 Undertake routine pre-operational checks in accordance with manufacturers' specifications and regulatory safety requirements 2.3 Inspect attachments and/or equipment
3. Check controls and equipment	3.1 Carry out pre-operational and post start-up equipment checks in accordance with manufacturers' specifications and/or operating manual 3.2 Report defects and damage according to site procedures
4. Shift and place loads	4.1 Select the most appropriate load shifting device to suit load and shifting requirements 4.2 Operate load shifting device within design specifications and safe working load in accordance with SOPs 4.3 Lift load, ensuring balance, vision of operation and protection of load 4.4 Select and use the safe and efficient path of movement 4.5 Check path of movement and monitor for obstacles and hazards

	4.6 Place loads ensuring safety, stability, protection of material and avoidance of hazards on-site
5. Shut down equipment and secure site	5.1 Park machinery in accordance with procedures, avoiding site and equipment hazards 5.2 Conduct shutdown in accordance with manufacturers' specification to isolate vehicles 5.3 Complete post-operational check in accordance with operational procedures

Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.	
On-site locations include one (1) or more of the following:	• factories • wharfs • ships • warehouses • manufacturing plants • building sites • road construction • demolition sites • quarries and mine sites
Pre-operational checks include one (1) or more of the following:	• battery • water • fuel • hazards warning lights

	• fluid or gas leaks • braking • movement of booms • visual checks of tyres • emergency device/alarms • log books • operating motions • evidence of damage • excessive wear and tear as determined by manufacturers' specifications and standard operating procedures
Attachments and/or equipment includes one (1) or more of the following:	• hooks • electromagnetic hook • buckets • slings • tag lines • buckets • trench • excavating • rock breakers • shackles • lifting lugs • fork arms
Post start-up includes the following:	• hazards warning systems, attachments, movements and control functions are smooth • operating and emergency controls and safety devices are located, identified and tested • communication signals are confirmed • defects and damage are reported

Load shifting devices include one (1) or more of the following:	• front end loaders/back hoes • ride on forklifts • pallet trucks • skid steer • vehicle loading crane
Safe working load includes the following:	• assessing weight of load to ensure compliance with equipment load plate specifications
Sops include one (1) or more of the following:	• industry standards • production schedules • safety data sheets (SDS) • work notes and plans • product labels • manufacturers' specifications • operator manuals • enterprise policies and procedures • supervisors' oral and written instructions • current state/territory WHS legislation • standards and codes of practice
Obstacles and hazards include one (1) or more of the following:	• overhead cables • personnel, obstacles (fixed and moveable) • trenches • pits • uneven terrain • trees • underground services • exposure to chemicals • dangerous or hazardous substances • movements of equipment, goods and materials

	• vehicular traffic
Shutdown includes the following:	• post-operational equipment checks, motion locks and brakes are applied • lifting equipment is checked • defective equipment is identified, segregated and reported to supervisor • equipment is correctly stowed

Unit Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
MEM11010 Operate mobile load shifting equipment	MEM11010B Operate mobile load shifting equipment	Supersedes and is equivalent to MEM11010B Operate mobile load shifting equipment	Equivalent

Assessment Requirements for MEM11010 Operate mobile load shifting equipment

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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 tables, figures and instructions (both written and verbal) to work with others to operate mobile load shifting equipment
- performing routine safety, basic service and maintenance procedures as determined by manufacturers' specifications and site procedures
- calculating load masses and safe working loads and assessing calculation to ensure compliance with equipment load plate specifications
- selecting and safely operating appropriate load shifting equipment to shift loads, including interpreting communication signals and instructions
- conducting pre-operational checks, start-up and shutdown procedures
- determining load masses, including irregular shaped loads and equipment requirements
- demonstrating emergency operating procedures
- communicating faults, malfunctions and workplace hazards, reports and maintenance of operational records in accordance with site 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)

- pre-operational checks
- start-up and shutdown procedures
- manufacturers' and design specifications of load shifting device
- load chart
- licensing requirements
- load protection and safe load placement
- operational environment
- relevant hazards
- effect of load mass and shape on lifting and placing loads
- equipment load plate specifications
- appropriate permits
- workplace communication procedures.

Assessment Conditions

- Assessors must:
 - have vocational competency in operating mobile load shifting equipment 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.

Link

Companion volumes, including implementation guides, are found on the national training register - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=45a7f1d5-61a5-447a-9688-7abbd7e1a5c7>.