



Australian Government

TLIB3013 Maintain mobile cranes

Release: 1

TLIB3013 Maintain mobile cranes

Modification History

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Application

This unit involves the skills and knowledge required to carry out routine maintenance on a mobile crane, in compliance with licence/permit requirements, regulations and work requirements in a variety of operational contexts.

It includes obtaining and confirming job instructions and work specifications, coordinating loading of gear and equipment, assessing job requirements and work areas, designing job plan and setting up work area.

Work is performed under general supervision, with some accountability and responsibility for self and others in achieving the prescribed outcomes.

This unit applies to maintenance activity on equipment used by the operator and is limited to lubrication, fluid, filter and accessory changing and checks for cracks, surface or structural faults or other damage.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

B – Equipment Checking and Maintenance

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan maintenance operations

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1 Tags, service records, logbooks and crane manufacturer information are read prior to commencing maintenance, and previously identified and manufacturer

- recommendations are noted
- 1.2 Maintenance schedules are read and maintenance tasks are confirmed to match schedule
 - 1.3 Step by step procedure is worked out to minimise time delays and to sequence maintenance processes consistent with manufacturer recommendations
- 2 Complete pre-maintenance checks**
- 2.1 Appropriate safe work area is selected for maintenance tasks
 - 2.2 Required tools, consumables and equipment are identified and assembled
 - 2.3 Equipment is inspected for visible faults and loose or damaged components
- 3 Identify and assess faults found**
- 3.1 Conditions found are compared with manufacturer information and intended use of crane
 - 3.2 Conditions noticed that may cause future difficulties are identified and potential effect on the safe and efficient operation of mobile crane is documented
 - 3.3 Potential fault conditions are reported to appropriate personnel
- 4 Conduct maintenance operations and safety checks**
- 4.1 Fluid replacements and lubrication operations are completed
 - 4.2 Fluid levels are checked and adjusted
 - 4.3 Mechanical components are checked to ensure attachments and tensions are secure
 - 4.4 Mechanical adjustments are made
 - 4.5 Maintenance plan is followed and appropriate adjustments are made to maintenance plan to deal with unexpected events
 - 4.6 Own work and crane system operations are checked to ensure crane's operational condition is in accordance with required specifications
 - 4.7 Tools, equipment and unused consumables are returned to appropriate locations and waste is disposed of in accordance with workplace policy and procedures

5 Complete maintenance records

- 5.1 Accurate reporting of safety check results and maintenance conducted, is completed and filed in accordance with procedures, industry guidelines and statutory requirements
- 5.2 Clear reference in reports is made to any items that may not yet require maintenance but may affect the future working condition or safety of the mobile crane

Foundation Skills

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

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions can be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIB3013A Maintain mobile cranes.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>