



Mobile Crane Operator - Upgrading A Guide to Course Content

Mobile Crane Operators operate many types of hoisting equipment to move, place and position items.

Training Requirements: All candidates applying for upgrading training must be eligible to challenge the journeyperson examination.

This program is designed to prepare individuals to challenge the Mobile Crane Operator Interprovincial Journeyperson examination.

As there is no practical component to the upgrader training program, additional study is recommended in areas where individuals have minimal on-the-job experience.

The information contained in this pamphlet serves as a guide for employers and apprentices.

The pamphlet briefly summarizes the training delivered in the upgrading program. The content of the technical training components is subject to change without notice.

Safety/Tools and Equipment

- Safety
- Communications for Hoisting
- High Voltage Electrical Fundamentals
- Trade Related Documents
- Tools and Equipment
- Fasteners and Retaining Devices

Rigging

- Wire Rope
- Rigging Hardware
- Introduction to Rigging and Hoisting
- Sling Configurations
- Advanced Rigging and Hoisting
- Reeving Operations
- Multi-crane Lifts

Load Weight Calculations

- Load Weight Calculations I
- Load Weight Calculations II

Load Charts

- Load Charts I
- Load Charts II

Pre-operational Checks, Inspections and Maintenance

- Engines and Drive Systems
- Mechanical Systems
- Hydraulic Systems
- Continual Checks

Mobile Crane Set-up

- Crane setup
- Assembly and Disassembly (Lattice Boom Crane)
- Assembly and Disassembly (Telescopic Boom Crane)
- Transportation
- Pre-lift Planning
- Worksite Preparation

Mobile Crane Operations

- Lifting Theory and Forces
- Introduction to Crane Operations
- Introduction to Computerized Operational Aids
- Job Planning
- Introduction to Mobile Cranes
- Hydraulic Telescopic Boom Operation
- Hydraulic Drive Lattice Boom Operation
- Friction Drive Lattice Boom Operation
- Specialty Crane Operations

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