

Mobile Crane Operator Training Outline

Course Code: MCO

Our training exceeds OSHA regulations and ASME standard qualification requirements. The program is customized using load charts specific to Manitex Boom Trucks. Due to varying operator experience levels, apprentice or journeyman qualification award certificates are offered and expire after two years.

I. Student Pre-Requisites:

- A. Has the desire to become qualified and designated as a crane operator. Ability to read, write, perform arithmetic, follow directions, and be capable of performing crane operations safely. Student must meet qualifications for operators per ASME B30.5-3 (2004) and must provide a completed application to be approved and scheduled for training.

II. Award Qualification Categories:

- A. There are two award qualifications for this course:
 - i. Apprentice: Has no prior experience and shall be considered a trainee. An apprentice has sufficiently completed course subjects and testing requirements and shall only operate under direct supervision.
 - ii. Journeyman: Has prior experience, demonstrated competency in course subjects and passed testing requirements. Journeymen should continue to receive monitored supervision when operating.

III. Course Subjects:

- A. Roles & Responsibilities of Mobile Crane Operators
- B. Mobile Crane Types
- C. Component Identification & Terminology
- D. OSHA Regulations and ASME Standards
- E. Hand Signal Communication
- F. Proper Crane Operating Procedures
- G. Understanding Load Capacity Charts and Operating Instructions
- H. Pre/Post-Operational Inspections
- I. Load Maneuvering Procedures
- J. Critical and Multi-Crane Lift Procedures
- K. Site Preparation
- L. Outrigger Blocking and Cribbing
- M. Operator Aid Safety Devices
- N. Emergency Shutdown Operating Procedures
- O. Powerline Safety Awareness
- P. Basic Rigging Awareness
- Q. Determining Load Weights

IV. Testing Requirements:

- A. Students must successfully complete written exams and performance evaluations with a score of:

75% or better: Apprentice
85% or better: Journeyman

Cost of tuition includes:

- Mobile Crane Operator Reference Manual with current OSHA Regulations, ASME Standards and other pertinent educational or training information.
- Inspection checklists: Pre/Post-Operational and Monthly Wire Rope and Hook.
- Pocket Reference Cards: Rigging Safety and Hand Signals.

Wall and wallet size certificates upon successful completion of written and practical exams. Certificates are valid for 3 years. Expiration notification will be sent 3 months prior to certificate expiration.

CCO Certification

More than ever site contractors are contracting only NCCCO certified crane operators. Even individual states are beginning to require a certification before you operate a crane. Manitex would like to help you become an NCCCO Certified Crane Operator and has arranged to host this certification course offering.

A sound program of training and certification provides operators with the confidence that they are equipped to safely operate cranes in a variety of situations. The professional designation as a Certified Operator also assures employers of a proficient worker, without relying on subjective recommendations of judgment.

The demand for CCO certified operators is growing rapidly.
Are you able to meet their requirements? Reserve your seat today.

CCO Preparatory Training Course Code: MCCO

This is an intensive course intended to provide operators with the knowledge and testing skills necessary to pass the official CCO written and practical exam. Course consists of classroom training, written exam, operating practice and practical exam.

The CCO Preparatory Training Class is a two-day course; the CCO written exams are administered on the third day. The written exams consists of the Core Exam and your choice of one or two Specialty Exams.

The Specialty Exams are:

- Large Telescopic Boom Cranes (over 17.5 tons)
- Small Telescopic Boom Cranes (under 17.5 tons)

Candidates must register for the Core and at least one Specialty Exam. All candidates are required to take the Core Exam regardless of the specialty(s) in which they wish to be certified. Each candidate must supply proof of a current DOT medical examiner's certificate before the registration deadline to reserve a seat in the certification session. This training program is limited to 20 operators

Pricing for preparatory training, written exams and practical exams vary. To request a quote, please contact the Manitex Product Support department with details regarding number of students and specialty course(s) you have interest in.

Course Subjects:

- ❑ **Work Site:** blocking and cribbing in various work environments, power line safety, supporting surface stability, and site access.
- ❑ **Crane Operations:** signal communications, reeving and multiple parts of lines, shutdown procedures, environmental conditions affecting crane operations, crane leveling, rigging and load weights, operating aids, load control, and emergency response procedures.
- ❑ **Technical Knowledge:** crane and attachment functions, wire rope, rigging devices, power line safety, multiple crane lifts, crane terminology, power-flow systems, instrument and gauge reading, inspection criteria and procedures, operating aids, load capacity calculations, crane attachments, dynamic loading, lifting operations vs. duty cycles, side loading, backward stability, and thermal expansion.
- ❑ **Load Chart:** load chart terminology, load chart assessment, load chart usage, and load moment devices.
- ❑ **Regulations & Standards:** instruction on the applicable sections of OSHA Regulations and ASME Standards required to pass the written exam.

Cost of tuition includes:

CCO Candidate Handbook
Written & Practical Examination Fees
Written & Practical Exam Scheduling
Color Passport Photo for Certification Card
Mobile Crane Operator Reference Manual & Study Guide
OSHA Regulations & ASME Standards
Inspection Checklists
Hand Signal & Rigging Safety Reference Cards