



course eBook

Mobile Crane Operator



TRAINING | FIELD SERVICES | CERTIFICATION | BOOKSTORE | WEBINARS | E-LEARNING | WORKSHOPS

Cranes • Rigging • Lift Planning • Inspection



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our customers

The world's leading organizations trust ITI with the education of their personnel.



LEEA

In 2012, ITI underwent a series of audits and evaluations to become an Accredited User (end user) Training Company according to the Lifting Equipment Engineers Association. At this time, ITI is the first and only professional training company in North America to be accredited by LEEA.

The process entailed:

1. A corporate audit of ITI as an organization.
2. A complete audit of all ITI course curriculum and ITI examination processes.
3. Individual presentation skill audits of all ITI Instructors.
4. Facility audit to determine compliance of ITI Training Centers.



The Lifting Equipment Engineers Association (LEEA) is established as the leading representative body for all those involved in the lifting industry worldwide. The Association has played a key role in this specialized field for over half a century, from training and standards setting to health and safety, the provision of technical and legal advice, and the development of examination and licensing systems.


LEEA was founded in 1944 as the Chain Testers' Association of Great Britain. The name was changed to its present one in 1988 to more accurately reflect the activities of their worldwide Membership. On January 1, 2000 LEEA became a company limited by guarantee and is owned and financed by Members.

Who We Are

A World Leader in Crane and Rigging Training



IT Training



ITI conducts the majority of its crane and rigging training courses at client locations in North America and around the world. In addition, many clients choose to send key personnel to open-enrollment courses offered at ITI Training Centers in the USA and Canada. Online learning courses are also available for various subjects. Find the courses that you are interested in and learn about the different course delivery methods.

iti.com/training



IT Field Services




Educated minds and experienced hands have always been the foundation of the ITI Field Services and Training Staffs. These traits are the reasons why many customers request the following services:

- Accident Investigation
- Expert Witness Testimony
- Crane & Rigging Audits
- Critical Lift Planning
- Lift Director Services
- Manual Development

iti.com/fieldservices



IT Bookstore



The ITI Bookstore is the most comprehensive and complete marketplace for books, reference and training materials, and field tools for those conducting crane, rigging, and lifting activities. ITI Bookstore is a Division of Industrial Training International, a world leader in crane, rigging, and lifting training and consulting.

iti.com/bookstore



IT Workshops

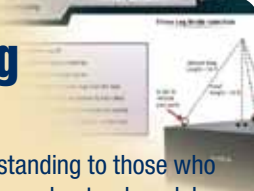


ITI has been conducting crane, rigging, and lifting open-enrollment educational events since 1986. Notice, these are not “conferences”. ITI Workshops are single-track, interactive learning events that bring ITI course content to a specific region, tailored to a specific industry, with a few special guest speakers. Find the lineup for upcoming Lifting Workshops.

iti.com/workshops



IT E-Learning




Delivering knowledge and understanding to those who use cranes and rigging in easy-to-understand modules for beginners and veterans alike, accompanied by open-enrollment, hands-on learning opportunities. E-Learning courses can be administered as instructor-led courses or taken individually. When you call in to register, ask for the Training Center Student Discount.

iti.com/elearning



IT Webinars

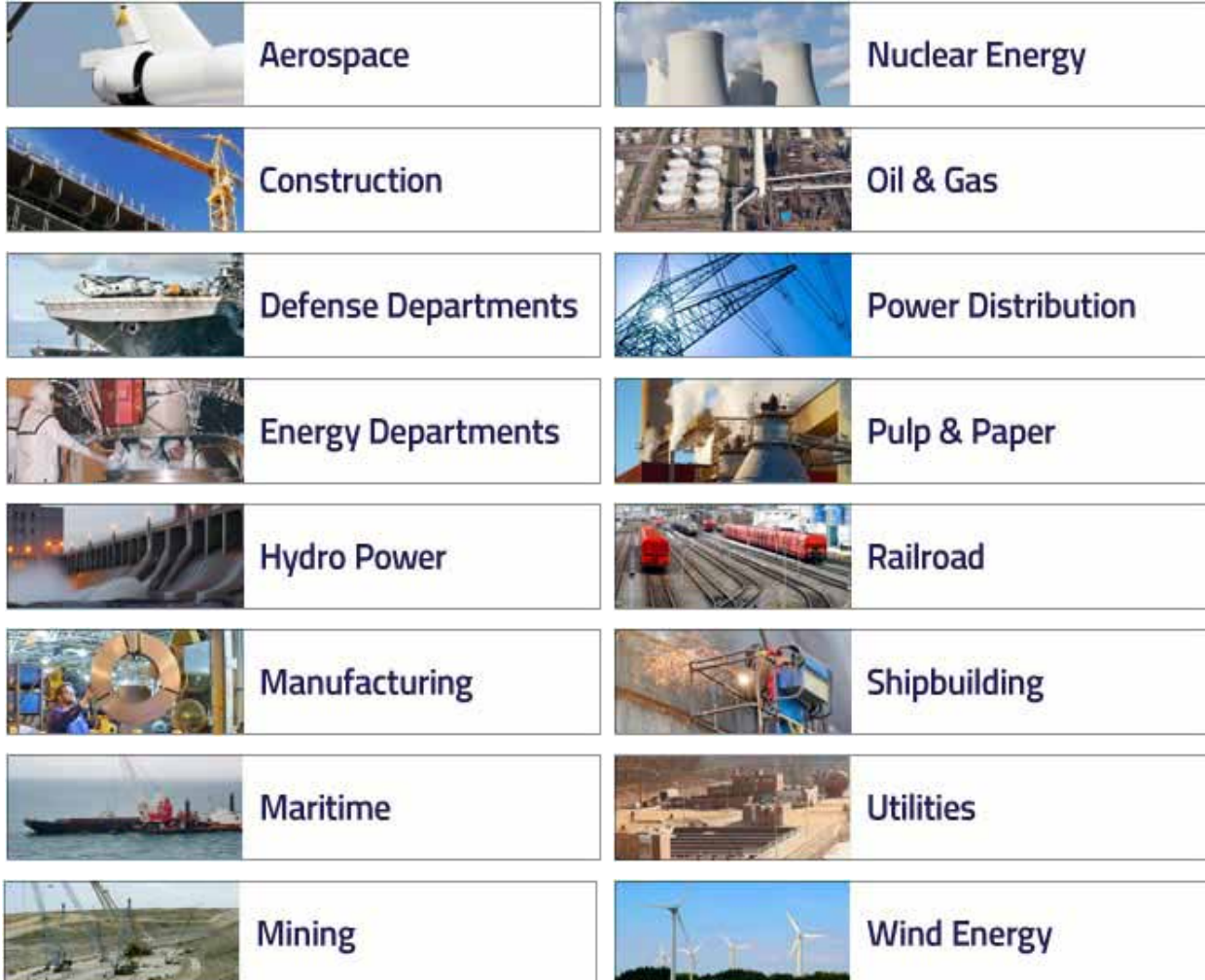


Each month ITI President and CEO Mike Parnell hosts a free webinar presentation for you to learn and discuss crane, rigging, and lifting matters important to your organization. Also, check out the lineup of upcoming Training Modules delivered live by ITI Instructors. Learn right from your computer and earn ITI CEUs.

iti.com/webinars

Who We Are

We serve a variety of industries:



Our Mission

We commit all of our resources and total energy to provide world-class crane and rigging training and consulting solutions to industries and organizations that conduct lifting activities worldwide.



Resources



Showcase Webinar Series

A free, monthly training webinar to help improve your organization's lifting activities

- 10 Audit Points for Your Crane & Rigging Operations: An HSE Perspective
- Tackling the Challenges of Training Site Supervisors, Lift Directors, and Other Leaders
- 4 Major Lifting Considerations in Power Gen Environments



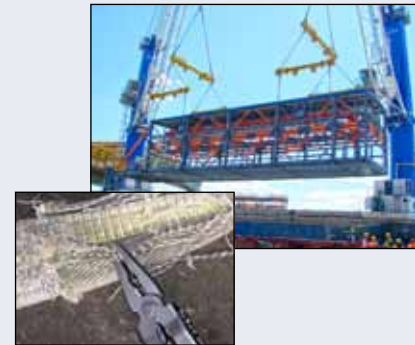
iti.com/showcase



Webinar Training Courses

Instructor-led webinar training courses airing actual ITI course curriculum.

- Lift Director & Site Supervisor
- Critical Lift Planning
- Rigging Gear Inspection for Supervisors
- Advanced Rigging: Load Distribution & Center-of-Gravity
- Advanced Rigging: Multi-Crane Lifts & Load Turning



iti.com/webinars



Workshops

Regional, industry-specific training events for the purpose of improving lifting operations by educating organizational leaders.

iti.com/workshops



ITI Blogs

Keep up with industry news and trends by reading our blogs. 3 Different blogs highlight 3 different facets of the industry. **The ProRigger** highlights technical issues, **Crane & Rigging Success from the ITI Team** gives personal viewpoints, and **Industry Insights** focuses on industry news. If you missed any of these past articles, you can still find them at iti.com/blogs:

ProRigger: Crane Assembly & Disassembly Director - What is that?

ProRigger: 10 Tips for Better Mobile Crane Operations

C&R Success from the ITI Team: Qualities That Make a Successful Rigging Gear Inspector

Industry Insights: LEEA Issues New Guidance on Using Hand Chain Blocks

iti.com/crane-rigging-blogs





Introduction

The Mobile Crane Operator Program is designed to increase crane operators' knowledge, skill and proficiency level through classroom, interactive problem-solving workshops and hands-on training. Students can achieve qualified operator status by successfully completing written and hands-on segments.

Purpose and Scope

The purpose of this training is to provide participants with the knowledge and skill necessary to properly operate mobile cranes and move loads using slings and other rigging hardware. The program covers mobile crane daily operational inspection, operating practices, load charts, crane setup, hand signals, load weight estimation, rigging gear selection and load control.

Program Objectives

1. Using reference materials, the trainee will be able to identify primary components of a mobile crane.
2. After completing the practice exercises, the trainee will be able to describe the effects of counterweight when the boom length or boom angle changes.
3. Using the **MCORC and the program manual, the trainee will be able to identify conditions that adversely affect safe mobile crane operation.
4. Using the **MCORC and a pre-operational checklist, the trainee will be able to determine if a man basket can be used to carry personnel.
5. After reviewing the **MCORC with a signal person, the trainee will be able to follow industry-standard hand signals for mobile cranes.
6. Using the **MCORC, the trainee will be able to complete a pre-operational inspection of a mobile crane.
7. Using the **MCORC and the program manual, the trainee will be able to calculate load weight, select appropriate rigging gear, and choose the best hitch configuration that provides the best load control.
8. Using load charts provided by the instructor and the program manual, the trainee will be able to accurately determine crane capacities for load radius, boom length, and boom angle.
9. The trainee will be able to demonstrate his/her skill as an operator using proper crane setup procedures and correct operating practices while completing a series of load moving activities, as directed by the instructor.

**MCORC – Mobile Crane Operator Reference Card



Course Outline

Module 1	Introduction to Mobile Cranes
Module 2	Technical Information
Module 3	Operating Practices
Module 4	Lift Considerations
Module 5	Communications
Module 6	Daily Inspection
Module 7	Rigging Practices
Module 8	Load Charts
Module 9	Hands-On
Module 10	Applicable Federal, State, and Provincial Regulations and ASME Standards

About the Course

Who Should Attend

The Candidates for the mobile crane operator program are individuals who are apprentices in crane handling, crane maintenance personnel, and current operators who have been trained by “field practices”, but not yet exposed to the formal side of crane operations. This course is also excellent for supervisory personnel and lift directors who did not rise through the trades in the seat of a crane.

Which Industries Require Personnel with Mobile Crane Operator Skills

All industries that use mobile cranes to handle loads, materials or products in the normal course of their business will benefit by having trained crane operators.

Where and When is this Course Offered

ITI courses are delivered at customer locations and most companies utilize this method when the class size is greater than six people. Most courses are also offered at ITI Training Centers in the USA, Canada, and Latin America in an open-enrollment format – several companies might send one or two people to these courses. To find the most up-to-date locations and dates of ITI Training Center events, visit iti.com.

Course Duration

This course is typically a 5-day event. Length may vary depending on the number of students, course location, and customized content.



Testimonials

I think this mobile crane operator training course is the most needed. I'm very glad to have gone through it. Bob Schumacher did very well. I'm leaving this class with much improved load chart confidence. Thank you for that!

Kirt W. Jone, The Boeing Company

The first round of mobile crane training has been completed here at the Sherco Generating Station. Devon Beasley has done an outstanding job of engaging our employees in both classroom and hands on training. I can honestly tell you that we hire in trainers for all kinds of different purposes, and what stands out the most with this training is the feedback that I am getting from the employees. Every single one of them at some point during the week have come to my office to express how well Devon translates the training data into useful, meaningful, easy to understand information.

On behalf of Xcel Energy - Sherco, I would like to thank Devon and ITI for the first class operation that they provide to us. We look forward to continued business relations now and in the future.

Keith D. Jackson, Xcel Energy | Responsible By Nature

