



# BASIC RIGGING & INSPECTION

This Course Available @



TRAINING CENTERS



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BOOKSTORE



Our 8-hour Basic Rigging & Inspection Course is designed to provide participants with a basic level of knowledge of rigging gear inspection, proper rigging procedures, and load control using typical rigging techniques. Classroom interactive, and problem-solving workshops.

**Subjects covered include:**

- Rigging Introduction
- Rigging Inspection
- Rigging Selection
- Load Handling Activities

**Who should take this course?**

- All trades with 0-1 years' experience
- Rigging/Equipment Sales Personnel
- Safety Professionals
- Maintenance Professionals



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# INTERMEDIATE RIGGING

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This course is designed for the beginner to intermediate level person whose work assignments involve some rigging activity. All industries and their employees who handle and move loads or products in the course of their daily activities would benefit by taking the ITI Intermediate Rigging Course.

### Subjects covered include:

- Rigging Terms & Definitions
- Load Weight Estimation
- Center of Gravity
- Rigging Inspection Removal Criteria Basics
- Load Control
- Rigging Capacities
- Sling Angles & Tensions
- Horizontal Rigging
- Sling & Rigging Selection
- Rigging Procedures
- Accident Case Studies
- Applicable Federal, State, and Provincial Regulations & Standards

### Who should take this course?

- All Trades
- General Construction
- Safety Professionals
- Maintenance Professionals



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# MASTER RIGGER

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The ITI Master Rigger Course is designed for participants that have had some exposure (2-10 years) to crane and rigging operations. The course exposes participants to a variety of equipment and applications which include multiple crane lifts, load turning, load drifting with chain hoists, jacking and rolling using mechanical, pneumatic and hydraulic systems, incline planes and managing the center-of-gravity in all three axes.

**Subjects covered include:**

- Inclined Planes
- Rigging Block & Winch Systems
- Chain Fall Load Drifting
- Levers, Jacks and Rollers
- Spreader Bars
- Multiple Crane Lifts
- Off-Level Pick Points
- Multiple Hitch Systems
- Load Turning
- Load Moving Procedures
- Load Distribution
- All subjects covered in the ITI Intermediate Rigging Course
- Applicable Federal, State, and Provincial Regulations & Standards

**Who should take this course?**

- Lead Field Personnel
- Safety Coordinators
- Senior Trade Professionals



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# RIGGING GEAR INSPECTOR

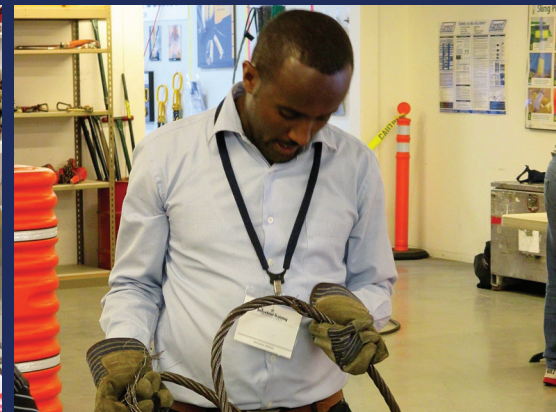
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The Rigging Gear Inspector Course is designed to build and enhance the skills of the student to become a qualified, in-house rigging gear inspector. The course includes classroom sessions and multiple hands-on inspection activities.

Participants learn the removal criteria for wire rope, wire rope slings, synthetic web and round slings, chain slings, rigging hardware and below-the-hook lifting devices according to the applicable federal and provincial regulations as well as ASME standards. Written exams are administered and participants perform hands-on inspections of used and damaged gear to test their knowledge of the criteria learned.

### Subjects covered include:

- Wire Rope
- Wire Rope Slings
- Synthetic Web and Round Slings
- Chain Slings
- Rigging Hardware
- Below-the-Hook Lifting Devices
- Applicable Federal, State, and Provincial Regulations & Standards

### Who should take this course?

- Any employee that performs rigging inspection
- Maintenance Personnel
- Maritime Personnel
- Construction Personnel
- Tool/Equipment Room Managers
- Many more



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# OVERHEAD CRANE OPERATOR

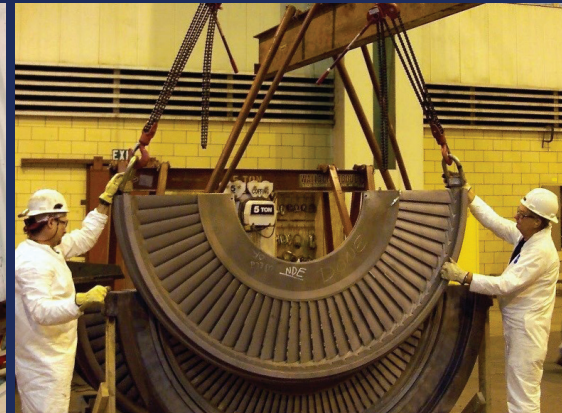
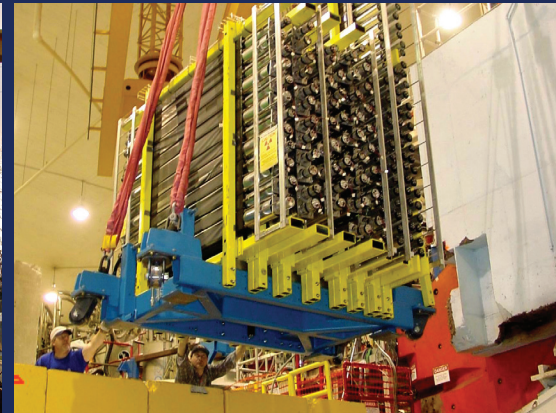
This Course Available @



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The course is designed to increase the participants' level of knowledge in proper use and pre-operational inspection of overhead cranes. The course utilizes hands-on sessions in which loads are moved by participants using the Operator's Checklist. Qualification is available.

### Subjects covered include:

- Inspection Requirements
- Safety Procedures
- Inspection Components
- Mechanical Systems
- Structural Components
- Applicable Federal, State, and Provincial Regulations & Standards

### Who should take this course?

- All employees required to operate an overhead crane to perform a work related task



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# OVERHEAD CRANE INSPECTOR

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The course is designed to increase the participants' level of knowledge for inspection of overhead lifting devices, which include bridge, gantry, monorail, fixed hoists and jib wall mounts. Overhead crane inspection training has grown rapidly over the past few years in several industries. ITI serves many global leaders with this course including Boeing, BP, and the US Army Corps of Engineers.

## Subjects covered include:

- Hoist Chain Inspection
- Wire Rope Inspection
- Daily, Monthly, Annual Checklists
- Brakes
- Limit Switches
- Structural
- Drive Trains
- Applicable Federal, State, and Provincial Regulations & Standards

## Who should take this course?

- Journeyman Electricians
- Lead Millwrights
- Maintenance Personnel
- Overhead Crane Operator Trainees



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# NCCCO MOBILE CRANE OPERATOR

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To assist crane operators that need to comply with the newly revised OSHA 1926.1400 regulations, which requires crane operators working in construction or performing construction-related activities to be certified through a nationally accredited agency, ITI offers a Mobile Crane Operator Course with NCCCO Nationally Accredited Certification testing. The course includes a 3-day test prep to ensure mobile crane operators are prepared to take the NCCCO nationally accredited exams.

This program is designed to prepare participants to take the general and crane-specific exams in the NCCCO Crane Operator Certification Series.

### Certification Categories:

- Lattice Boom Crawler (LBC)
- Lattice Boom Truck (LBT)
- Telescoping Boom Swing Cab (TLL)
- Telescoping Boom Fixed Cab (TSS)

### Who should take this course?

- All mobile crane operators attempting to achieve National Certification



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# MOBILE CRANE OPERATOR

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This course is designed to increase the crane operator's knowledge, skill and proficiency level through classroom and hands-on training. Students can achieve qualified operator status by successfully completing written and hands-on segments. ITI Qualification is available for Lattice Boom, Fixed and Swing Cab. Additional fees may apply.

This is an excellent prep course for those who wish to take the NCCCO national certification exams. The candidates for the mobile crane operator course are individuals who wish to be 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 subjects. This course is also excellent for supervisory persons and lift directors who did not rise through the trades in the seat of a crane.

### Subjects covered include:

- Center of Gravity
- Radius
- Rated Strength
- Leverage
- Load Charts
- Side Loading
- Outrigger Position
- Calculating Capacities
- Boom Length/Angle
- Operating Practices
- OSHA/ASME Standards
- Operator's Responsibilities
- Static/Dynamic Load
- Range Diagram
- Load Weight Calculations
- Reeving
- Gross and Net Loads
- Set-Up
- High Voltage
- Daily Inspection
- Pick and Carry Practices
- Applicable Federal, State, and Provincial Regulations & Standards

### Who should take this course?

- 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.



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# MOBILE CRANE INSPECTOR

This Course Available @



This course is designed to help field personnel identify damage and wear on mobile and pedestal crane components.

It focuses on spotting the problems and identifying the damage that can be discovered through external evaluation. It addresses MESH (mechanical, electrical, structural and hydraulic) components. All mechanics and maintenance personnel who are responsible for their company's crane(s) should attend this course, especially those industries with high use cranes, such as production and construction.

### Subjects covered include:

- Daily, Monthly and Annual Checklists
- Inspection Requirements
- Boom
- Wire Rope
- Upper Revolving Structure
- Lower Structure
- Electrical, Hydraulic and Air Systems
- Safety Devices
- Outriggers
- Testing
- Applicable federal, state and/or provincial regulations and standards

### Who should take this course?

- Mobile Crane Maintenance Mechanics
- Mobile Crane Inspectors



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# LIFT DIRECTOR & CRITICAL LIFT PLANNING

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The Lift Director portion of the course addresses the responsibilities of a Lift Director as identified by 29CFR1926.1400 (Federal OSHA), ASME P30.1 Lift Planning and ASME B30.5 Mobile and Locomotive Cranes. Participants are provided an outline of the recommended knowledge and skill subjects that should be mastered in order to become a competent Lift Director. A hands-on session is offered that involves the completion of a lift plan using a personnel lifting system (man basket) followed by a trial run, test lift and the hoisting of personnel to a target work location.

The Critical Lift portion of the course focuses on the process of assessing risks, the compilation of crane and rigging data, crane operating areas, rigging methods, a safety checklist, personnel competencies and assignments, a proposed sequence of events, contingency plans and other category items as recommended in ASME P30.1 Lift Planning. Participants will formulate a series of lift plans based on multiple scenarios and then will be challenged to solve a variety of problem-solving workshops related to partially completed plans (quiz format).

### Subjects covered include:

- ASME B30.5 Responsibilities
- OSHA requirements for Lift Director
- ASME P30.1 Lift Planning
- Site Preparation
- Traffic Control
- Crane Load Chart Data
- Rigging Capacity Data
- Hazard Recognition
- Risk Assessment
- Multiple Crane Lifts
- Lifting Personnel
- Lift Data Sheet
- Load Schematic, Rigging Method and Selection
- Pre-Lift Safety Checklist
- Crane Set-up Schematic
- Load Travel Path and Personnel Placement
- Load Handling Sequence and Procedures

### Who should take this course?

- All personnel who oversee crane and rigging activities
- Lift Planners
- Equipment Setup
- Site Preparation



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# HEAVY EQUIPMENT OPERATOR

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ITI conducts a variety of heavy equipment training courses that support end-users from operators to inspectors. Heavy equipment training courses may be conducted at your location or ITI Training Centers. All participants will be required to prove proficiency in pre-op inspection, control knowledge, machine handling, load retrieval and placement, working on inclines and parking.

### Courses Available:

- Fork Lift Operator
- Fork Lift Inspector
- Telescopic Handler Operator
- Front Loader Operator
- Backhoe Operator
- Skid Steer Operator
- Aerial Work Platform Operator
- Aerial Work Platform Inspector
- Bucket Truck Operator

### Who should take this course?

- All trades that operate heavy equipment



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