

# **Equipment & Machinery Operator Certification**

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## **Forklift / Powered Industrial Truck Operator Certification**

### **Forklift / Powered Industrial Truck Operator Certification**

#### **In-Person Training**

#### **Powered Industrial Truck (PIT) Operator Training**

#### **Days and Times Scheduled Based On Your Needs**

This 1-day certification course is designed to provide participants with the necessary knowledge and hands-on skills to safely operate sit-down, stand-up, and motorized hand forklifts. The training combines classroom instruction with practical equipment evaluations to ensure operators understand the unique handling characteristics of powered industrial trucks, which are vastly different from standard vehicles.

The training covers the strict requirements of Fed/OSHA 29 CFR 1910.178 and Cal/OSHA Title 8 Section 3668 for Powered Industrial Trucks. Formal instruction, practical training, and an evaluation of performance are required before an employee can operate a forklift. This certification training is an important part of keeping your company compliant with OSHA regulations, preventing severe workplace accidents, and providing your key people with the information and resources they need to operate machinery safely.

#### **Training Topics Include:**

- OSHA Regulations and Operator Responsibilities
- Vehicle Capacity, Nameplates, and the Stability Triangle
- Understanding Center of Gravity and Load Dynamics
- Pre-Shift Equipment Inspections and Documentation
- Safe Lifting, Moving, and Placing of Loads
- Navigating Ramps, Inclines, and Uneven Terrain
- Pedestrian Safety and Blind Spot Management
- Proper Fueling and Battery Charging Procedures
- Dock Safety and Trailer Loading Protocols

## **In-Person Training Location Based On Your Needs**

*Includes Hands-On Familiarization and an Operator Certification Evaluation Test by the Instructor using Your Equipment.*

### **Presented by**

**SAFE - Safety Associates for Employers, LLC**

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## **Rough Terrain Extendable Boom Operator Certification**

### **Rough Terrain Extendable Boom Operator Certification**

#### **In-Person Training**

#### **Telehandler / Variable Reach Forklift Certification**

#### **Days and Times Scheduled Based On Your Needs**

This 1-day course focuses on the safe operation of Rough Terrain Extendable Boom Forklifts (Telehandlers). Due to their extreme lifting heights and variable reach capabilities, these machines present unique hazards compared to standard warehouse forklifts, including shifting centers of gravity and tipping risks. This course is excellent for construction operators and material handlers who need specialized competency on this equipment.

The training covers Federal OSHA 29 CFR 1910.178, 1926.602, and applicable ANSI/ITSDF B56.6 safety standards for rough terrain forklifts. This training is an important part of keeping your company compliant with current OSHA training mandates and providing your key people with the vital information, load chart comprehension, and physical skills they need to safely navigate complex job sites.

#### **Training Topics Include:**

- Interpreting Telehandler Load Charts and Decals
- Understanding Boom Extension and Angle Limitations
- Frame Leveling and Operating on Uneven Terrain

- Shifting Center of Gravity and Tipping Dynamics
- Pre-Operation Inspections and Function Tests
- Safe Use of Outriggers and Stabilizers
- Approved Attachments and Capacity Reductions
- Power Line Clearances and Overhead Obstructions
- Suspended Load Handling and Personnel Platforms

### **In-Person Training Location Based On Your Needs**

*Includes a Hands-On Practical Operator Evaluation Test by the Instructor using Your Telehandler at a Jobsite.*

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## **Crane Management**

### **Crane Management**

### **In-Person & Virtual Training**

### **Crane Management & Lift Director Training**

### **Days and Times Scheduled Based On Your Needs**

This 1-day administrative and technical course is designed for project managers, superintendents, EHS directors, and lift directors who oversee, but do not necessarily operate, cranes on the job site. Managing a worksite with mobile or tower cranes requires a deep understanding of multi-employer liability, assembly/disassembly oversight, and critical lift planning.

The training covers Federal OSHA 29 CFR 1926 Subpart CC (Cranes and Derricks in Construction) and ASME B30.5 standards for site supervision. It establishes the distinct roles and responsibilities of the Controlling Entity, Lift Director, Operator, and Rigger. This training is an important part of keeping your company compliant, mitigating massive liability, and

providing your management team with the information and resources they need to safely coordinate heavy lifting operations.

**Training Topics Include:**

- OSHA Subpart CC Roles and Responsibilities
- Assessing Ground Conditions and Bearing Pressure
- Evaluating Crane Setup, Outriggers, and Mats
- Creating and Reviewing Critical Lift Plans
- Managing Critical Lifts, Multi-Crane Lifts and Blind Picks
- Ensuring Minimum Clearance from High Voltage Power Lines
- Assembly / Disassembly (A/D) Director Responsibilities
- Verifying Operator, Rigger, and Signal Person Qualifications
- Lightning and Weather Monitoring, and Wind Speed Limitations

**In-Person Training Location or Virtual Zoom Training Based On Your Needs**

*Includes Interactive Tabletop Workshops on Critical Lift Plan Review.*

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**NCCCO Mobile, Overhead, or Tower Crane Operator Certification**

**NCCCO Mobile, Overhead, or Tower Crane Operator Certification**

**In-Person Training**

**NCCCO Crane Operator Prep & Testing**

**Days and Times Scheduled Based On Your Needs**

This intensive multi-day program prepares candidates for the National Commission for the

Certification of Crane Operators (NCCCO) written and practical examinations. OSHA requires crane operators in construction to be certified by an accredited crane operator testing organization. This course acts as a comprehensive review of operational fundamentals, technical knowledge, and mathematical load calculations required to pass the exams.

The training covers the strict requirements of Fed/OSHA 29 CFR 1926 Subpart CC, Ca/OSHA and ASME B30 standards. This preparatory training and subsequent testing are an important part of keeping your company legally compliant with operator mandates and providing your key people with the highest standard of professional credentialing in the lifting industry.

**Training Topics Include:**

- Site Navigation, Setup, and Ground Bearing Verification
- Detailed Load Chart Application and Mathematical Calculations
- Understanding Gross Capacity vs. Net Capacity
- Wire Rope Construction, Inspection, and Replacement Criteria
- Crane Operations, Controls, and Multi-Function Tasks
- Advanced Rigging Devices and Load Handling
- Standard Hand and Voice Signal Communication
- Powerline Clearances and Prohibited Operations
- Pre-Lift Planning and Preventative Maintenance Checks

**In-Person Training Location Based On Your Needs**

*Classroom Instruction paired with Practical Exam Practice. Official NCCCO Written and Practical Exams Administered at Conclusion.*

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# Heavy Equipment Operator & Supervisor Training

## Heavy Equipment Operator & Supervisor Training

### In-Person Training

#### Heavy Equipment Competency & Supervisor Oversight

#### Days and Times Scheduled Based On Your Needs

This 1-day course is designed for both the operators of heavy earth-moving equipment (excavators, loaders, dozers, backhoes, graders) and the supervisors tasked with overseeing them. Working with or around heavy equipment is one of the leading causes of "struck-by" and "caught-in-between" fatalities on construction sites. This course focuses on machine capabilities, situational awareness, and creating safe interfaces between machines and ground workers.

The training addresses Fed/OSHA 1926 Subpart O (Motor Vehicles and Mechanized Equipment) and Cal/OSHA Title 8 safety standards. This training is an important part of keeping your company compliant with heavy machinery regulations and providing your key people with the information and resources they need to proactively prevent catastrophic equipment accidents.

#### Training Topics Include:

- Equipment Specific Pre-Shift Inspections
- Identifying and Mitigating Extreme Blind Spots
- Managing Swing Radiuses and Pinch Points
- Operating Safely on Slopes, Trenches, and Excavation Edges
- Communication Interfaces Between Operators and Spotters
- Safe Loading, Unloading, and Tie-Down for Transport
- Proper Utility Locating and USA Dig Alert 811 Awareness
- Supervisor Responsibilities for Traffic Control Plans
- Lockout/Tagout Procedures for Heavy Machinery Maintenance

#### In-Person Training Location Based On Your Needs

*Includes a Half-Day Jobsite Walk-through Addressing Blind Spots, Traffic Plans, and Machine Inspections.*

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## **Mobile Elevated Work Platform (MEWP / Aerial Lift) Certification**

### **Mobile Elevated Work Platform (MEWP / Aerial Lift) Certification**

#### **In-Person Training**

#### **Aerial Boom and Scissor Lift (MEWP) Training**

#### **Days and Times Scheduled Based On Your Needs**

Aerial Work Platforms have been renamed and are now called Mobile Elevating Work Platforms or MEWPS. Along with the new terminology for lifts is a new classification system. Previously, Aerial Work Platforms were classified by product type like scissor lifts and boom lifts. MEWPs will now be classified into "groups" and sub-divided into three "types." "Group A" MEWPs move vertically like scissor lifts but stay within the chassis or tipping lines. "Group B" MEWPs like boom lifts can move beyond the machine's chassis or tipping lines (wheels or outriggers). Type 1 MEWPs can only travel with the platform in a stowed position. Type 2 MEWPs can travel elevated and is controlled from the chassis. Type 3 MEWPs can travel elevated and is controlled from the platform.

The program includes hands-on exercises, equipment inspections, and an operator certification evaluation test by the instructor. This training is an important part of keeping your company compliant with current ANSI A92 and OSHA regulations and providing your key people with the information and resources they need.

#### **Training Topics Include:**

- Selection and use of the appropriate MEWP, and Familiarization of the specific MEWP to be used.
- Monitoring of the work performance of the operator by a trained and qualified supervisor.
- A frequent inspection must be performed by a qualified maintenance person or mechanic prior to placing a MEWP into service or if the MEWP has been out of service longer than three

months.

- The more in-depth annual inspection must be performed by the manufacturer or an authorized and qualified shop at least once every 12 months.
- Pre-use or Pre-start inspections must be performed every day or at the beginning of each shift by the operator.
- Self-rescue by operator; Assisted rescue by others at work site; Technical rescue by emergency services.
- Operators - Can only operate MEWPs on which they have been effectively and properly trained and authorized to operate. Operators must be physically and mentally capable of operating the MEWP safely.
- Occupant - MEWP operators must provide instructions and make sure all occupants have a basic level of knowledge to work safely on the MEWP.
- Familiarization - Employers must ensure the trained operator is familiarized with the specific MEWP, operations manuals, understanding controls, and limitations.

## **In-Person Training Location or Virtual Zoom Training Based On Your Needs**

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## **Rigging & Signal Person Awareness**

### **Rigging & Signal Person Awareness**

#### **In-Person or Virtual Training**

#### **Rigging & Signaling Awareness Training**

#### **Days and Times Scheduled Based On Your Needs**

This 1/2-day course is designed for general tradespeople, site supervisors, and ground crew members who work around or in areas of cranes and hoisting/lifting operations but are not directly involved in rigging or signalling activities. An awareness level of understanding the

hazards involved in hoisting/lifting/rigging/signaling activities is an essential skill for anyone on a modern construction site.

This training introduces the fundamental concepts of Fed/OSHA 1926 Subpart CC and ASME B30 standard requirements for crane and load handling equipment hoisting, lifting, rigging, and signaling communication. While not a certification for basic, intermediate Level I, or master rigger Level II required for complex lifting, this awareness training is an important part of keeping your company compliant with general safety standards and providing your key people with the basic information and resources they need to avoid common “pinch-ponts”, “struck-by” and other crane and rigging related hazards.

**Training Topics Include:**

- Recognizing Common Load Handling Equipment (LHE) and Hazards
- Identifying Basic Slings, Shackles, Attachments, and Rigging Hardware
- Basic Sling Hitches (Vertical, Choker, Basket)
- Keeping Clear of the Fall Zone and Suspended Loads
- Standard ASME/OSHA Hand Signals for Mobile and Tower Cranes
- Signal and Voice Command Communication Protocols
- Electrical Powerline Clearances and Spotter Duties
- Environmental and Severe Weather Hazards and Wind Limitations

**In-Person or Virtual Training Based On Your Needs**

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## **Load Securement Training**

### **Load Securement Training**

#### **In-Person Training**

## **DOT and OSHA Load Securement & Tie-Down Training**

### **Days and Times Scheduled Based On Your Needs**

This 1-day training program is essential for equipment haulers, commercial drivers, flatbed operators, construction, general industry, and mining personnel who load and transport heavy machinery or materials on public roadways. Improperly secured loads result in devastating highway accidents, lost equipment, and severe Department of Transportation (DOT) penalties.

The training covers the Federal Motor Carrier Safety Administration (FMCSA) and DOT cargo securement rules (49 CFR Part 393). It focuses on the physics of load securement, friction, and proper tie-down techniques. This training is an important part of keeping your company compliant with strict state and federal transportation laws and providing your key people with the critical information and resources they need to secure loads safely.

### **Training Topics Include:**

- DOT/FMCSA General Cargo Securement Rules
- Calculating Working Load Limits (WLL) and Aggregate WLL
- Inspection and Rejection Criteria for Chains, Binders, and Straps
- Direct vs. Indirect Tie-Downs and Proper Securement Angles
- Specific Securement Rules for Heavy Machinery (Excavators, Dozers)
- Securing Cylindrical Objects, Pipes, and Lumber
- Understanding Forward, Rearward, and Lateral G-Forces
- Proper Use of Edge Protection and Dunnage
- En-Route Inspection Requirements and Documentation

### **In-Person Training Location Based On Your Needs**

*Includes Hands-On Practical Training Securing Equipment on Your Flatbeds or Transport Trailers.*

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## **NCCCO Qualified Rigger & Signal Person Training (Level I and II)**

### **NCCCO Qualified Rigger & Signal Person Training (Level I and II)**

#### **In-Person Training**

#### **3 to 5-Day Qualified Rigger & Signal Person Certification Prep**

#### **Days and Times Scheduled Based On Your Needs**

This training is designed for participants that have exposure to crane and rigging operations, bridging from Basic Awareness, Intermediate to Master level applications. This training 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.

This training helps prepare the trainees for the NCCCO Qualified Rigger Level I and II Written and Practical Exams administered and proctored by an approved NCCCO trainer. Candidates who successfully pass the exams will receive a 5-year Qualification. These qualifications meet the requirements of OSHA. This training is an important part of keeping your company compliant and providing your key people with the information and resources they need.

#### **Training Topics Include:**

- **RIGGING SELECTION.** Become familiar with basic rigging terms, rigging gear identification and be able to determine the best hitch and rigging gear necessary.
- **RIGGING USE & INSPECTION.** Determine proper hook loading and the removal criteria for rigging equipment.
- **LOAD WEIGHT ESTIMATION.** Learn techniques and formulas to estimate the weight of a load.
- **CENTER OF GRAVITY.** Learn techniques and formulas for estimating the load's center of gravity.
- **LOAD DISTRIBUTION.** Determine load distribution on various lifting systems.
- **SLING TENSION.** Calculate the tension in the slings and rigging hardware when rigging a load using single or multiple leg assemblies.
- **SIGNALS AND TAGLINES.** Recognize proper crane and rigging procedures as they relate to

taglines, signaling, and avoidance of pinch points.

- CHAIN FALL & LOAD DRIFTING. Determine tensions introduced to chain falls and come-a-longs during drifting activities.
- LOAD TURNING. Determine the transfer of weight during different methods of load turning.
- OFF-LEVEL PICK POINTS. Calculate sling tensions for off-level pick points.

### **In-Person Training Location Based On Your Needs**

*Mix of classroom and hands-on practice. National Commission for the Certification of Crane Operators (NCCCO) written and practical exam preparation and proctoring to earn 5 year Qualification Certification status.*

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## **Basic Rigging & Signal Person Training**

### **Basic Rigging & Signal Person Training**

#### **In-Person Training**

#### **1-Day Basic Rigging, Inspection, and Signaling Training**

#### **Days and Times Scheduled Based On Your Needs**

Basic Rigging and Inspection is designed to provide participants with a basic level of knowledge and skills for rigging gear inspection, proper rigging procedures, and load control using typical rigging techniques. Combined with Signal Person training, it features a classroom interactive problem-solving workshop and hands-on practical training format.

This 1-day training is the ideal foundational knowledge and skill building for those new to cranes, rigging, and load handling. It aligns with OSHA 1926 Subpart CC requirements for rigging hardware usage and signal person operations. This training is an important part of keeping your company compliant with current ASME/OSHA regulations and providing your key people with the foundational information and resources they need to safely assist in material

handling, rigging, and signaling operations.

**Training Topics Include:**

- RIGGING INTRODUCTION. The trainee will become familiar with basic rigging terms, rigging gear capacity & use, and identify load control methods with various sling hitches.
- RIGGING INSPECTION. The trainee will be able to recognize and evaluate field damaged rigging gear samples according to the guidelines established by recognized industry standards.
- RIGGING SELECTION. The trainee will be able to select slings and rigging hardware based on anticipated loading and rigging methods.
- LOAD HANDLING ACTIVITIES. The trainee will be familiar with recognizing common load handling hazards, common rigging practices, path of travel, and introduction to a standard lift plan.
- CRANE SIGNALING. Standard hand and voice signals utilized to safely direct crane operators.
- EQUIPMENT TESTING. The trainee will be familiar with the testing requirements of rigging gear according to the guidelines established by recognized industry standards.
- RIGGING TECHNIQUES. The trainee will be familiar with the basic and common techniques utilized in rigging.

**In-Person Training Location Based On Your Needs**

*Classroom and Hands-on Practical Training Session with Interactive Activities, Rigging Hardware Demonstrations, and Basic Rigging and Signaling Practice.*

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