

# TRAINING PROGRAMS





# The Midwest Crane Training Center

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In 2018, Cincinnati Crane & Hoist partnered with the North American Crane Bureau (NACB) to open the Midwest Crane Training Center at our location in Cincinnati. Leading Industry experts are brought in to teach in our training facility equipped with a state-of-the-art 3-D crane simulator for students to test their skills in a variety of life-like situations.



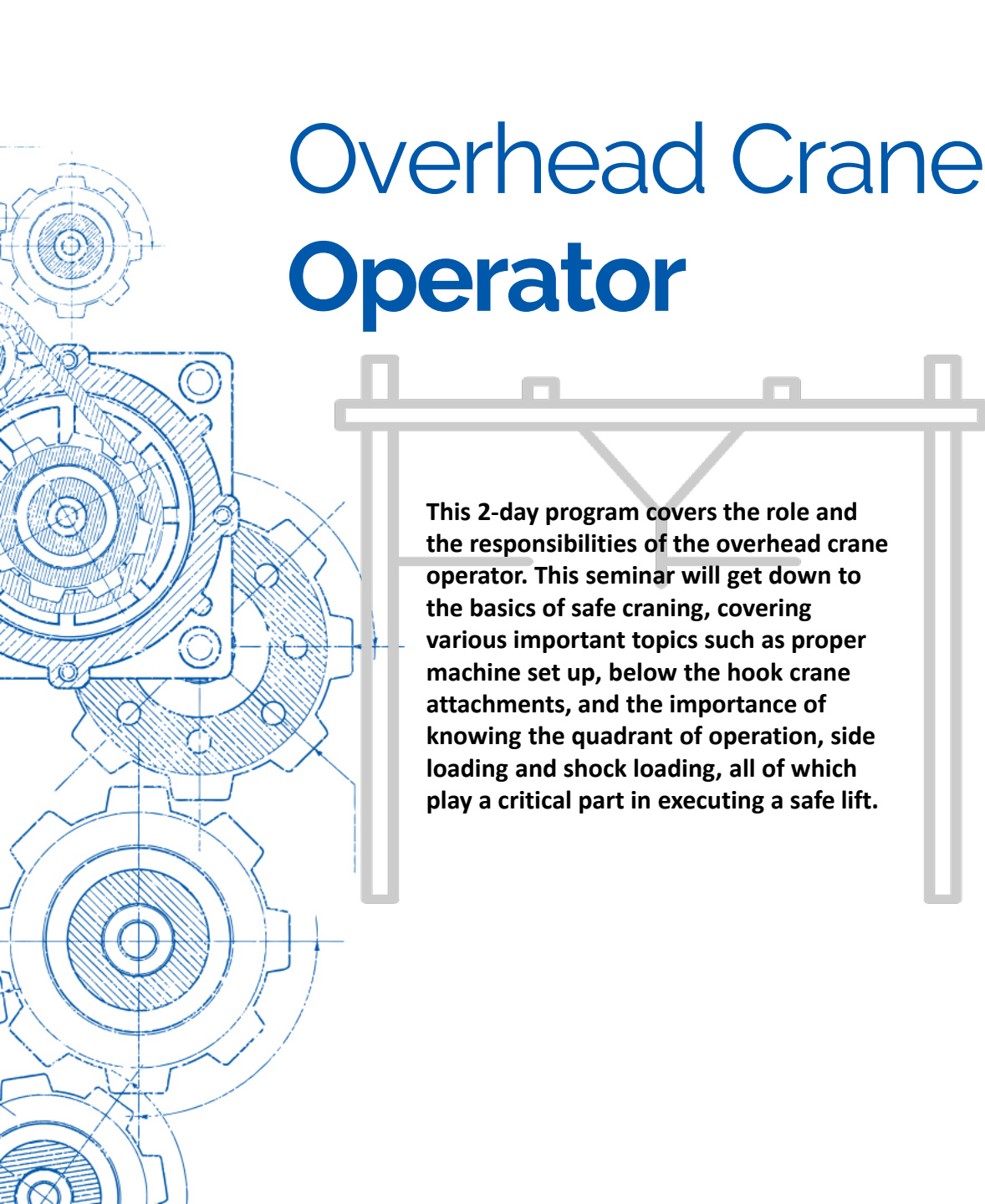


# Courses



- ✔ Overhead Crane Operator
- ✔ Overhead Hoist Maintenance
- ✔ Overhead Crane Inspector
- ✔ Overhead Crane Train the Trainer
- ✔ Mobile Crane Operator
- ✔ Mobile Crane Inspector
- ✔ Mobile Crane Train the Trainer
- ✔ Rigging Safety
- ✔ Rigging Inspector

# Overhead Crane Operator



This 2-day program covers the role and the responsibilities of the overhead crane operator. This seminar will get down to the basics of safe craning, covering various important topics such as proper machine set up, below the hook crane attachments, and the importance of knowing the quadrant of operation, side loading and shock loading, all of which play a critical part in executing a safe lift.

- **Inspection Documentation/Record Keeping Requirements**
- **Frequent & Periodic Inspection Requirements**
- **Nomenclature & Selection of Equipment**
- **Operational limitations of Equipment**
- **Accident Causes and preventions**
- **Proper Communication Between Work Crew**
- **Shutdown Procedures**

The background features a technical drawing of a crane's overhead hoist system. On the left, there are detailed sketches of various gears and mechanical components. In the center, a simplified line drawing of a crane bridge is shown. The title 'Overhead Crane Maintenance' is prominently displayed in the upper left area.

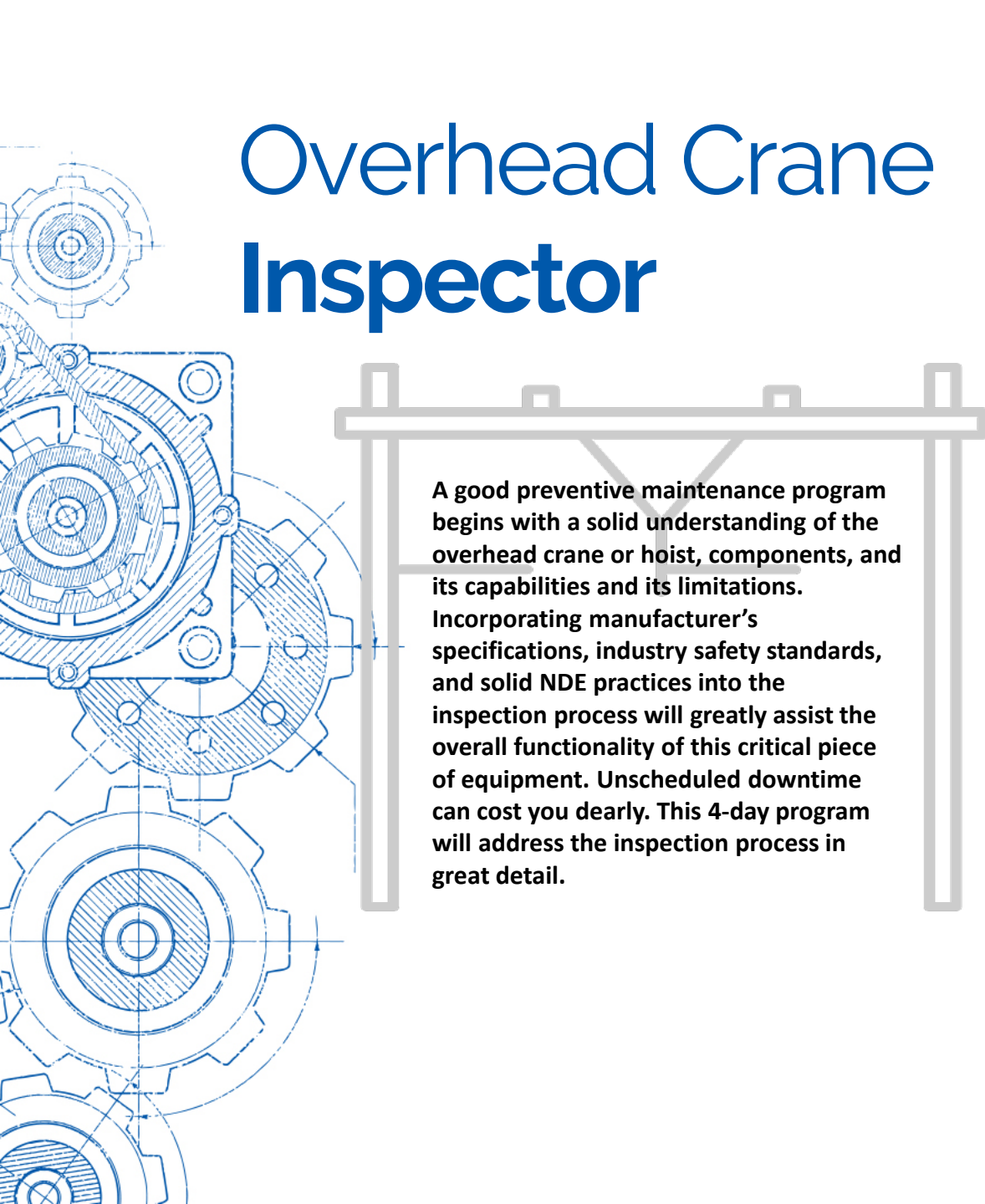
# Overhead Crane Maintenance

Preventive maintenance and proper repair techniques will greatly enhance the overall capabilities of overhead hoist systems. Training is the key ingredient in developing sound troubleshooting, repair, and maintenance procedures. technician. 5 day course.

- **Hoist Terminology**
- **Applicable ANSI Standards**
- **Lockout/Tagout/Blockout**
- **Brush Adjustments**
- **Load Chain Maintenance**
- **Pendant Control Maintenance**
- **Contactors**



# Overhead Crane Inspector



A good preventive maintenance program begins with a solid understanding of the overhead crane or hoist, components, and its capabilities and its limitations. Incorporating manufacturer's specifications, industry safety standards, and solid NDE practices into the inspection process will greatly assist the overall functionality of this critical piece of equipment. Unscheduled downtime can cost you dearly. This 4-day program will address the inspection process in great detail.

- Information Contained on Inspection Forms/Reports
- Overhead Crane Terminology & Applicable Standards
- Federal Regulations Pertaining to Overhead Cranes
- Operational Inspection Guidelines
- Lockout/Tagout/Blockout
- Basic Rigging Safety
- Inspection of: Mechanical Components, Bumper Stops, Crane Sequences, Safety Devices, Warning Devices, Limit Switches, Brakes, Runways, Rails, Drums, Footwalks, Ladders, Hooks, Guarding, Motors, Insulators, Collectors



# Overhead Crane Train the Trainer

This program is designed for in-house personnel, previously qualified as trainers, who need a thorough understanding of the subject(s) for presentation to groups of their supervisors, operators, and inspection and maintenance personnel. All attendees will be assigned the task of specific research, development, and the presentation of materials during this 4 day course.

- State and Federal OSHA Requirements
- Operator Inspection Record Keeping Requirements
- Nomenclature & Selection of Equipment
- Runway and Rail Inspection Procedures
- Operational Limitations of Equipment
- Required Pre-operational Inspection
- Handling the Load
- NEC and CMAA Requirements
- Rated Capacity
- Rigging Considerations
- Trainer Qualifications
- Training Course Development
- Training Techniques



# Mobile Crane Operator

This seminar will get down to the basics of safe craning, covering various important topics such as proper machine set up, reading and understanding capacity charts, stability vs. structural competency, below the hook crane attachments, the importance of knowing the quadrant of operation, side loading, shock loading – all play a critical part in executing a safe lift. This program includes more detailed information required to successfully complete the written testing requirements for certification as a mobile crane operator.

- State and Federal OSHA Requirements
- Site Access and Usability
- Suitability and Quality of Supporting Surface
- Proper use of Mats, Outriggers, or Crawlers
- Hand Signals
- Pre-operational Inspection
- Verifying Load Weight
- Transporting the Crane and its Components
- Operating in Various Weather Conditions
- Operator Aids
- Shutdown Procedures





# Mobile Crane Inspector

The effort put forth in properly training inspectors is greatly rewarded. A well-trained, qualified inspector could save your company a great deal of money and time by avoiding unscheduled downtime, costly repairs, accidents and lawsuits. The inspection process is the vital link to the safety and maximum utilization of your cranes.

- How to Read and Apply OSHA & ASME Standards
- Inspector Qualifications
- Lockout/Tagout/Blockout
- Load Chart Interpretation and Load Testing
- Safe Operating Practices
- In-depth Discussion of Tools Used
- Inspectioni of Various Components of Carriers, Superstructures, and Booms
- Factors Affecting Lifting Capabilities
- Information Presented on Inspection Forms



# Mobile Crane Train the Trainer

This program is designed for in-house personnel, previously qualified as trainers, who need a thorough understanding of the subject(s) for presentation to groups of their supervisors, operators, inspectors and maintenance personnel. All attendees will be assigned the task of specific research, development, and the presentation of materials during this course.

- State and Federal OSHA Requirements
- Record Keeping and Operator Inspection Requirements
- Nomenclature & Selection of Equipment
- Runway and Rail Inspection Procedures
- Operational Limitations of Equipment
- Required Pre-Operational Inspection
- Handling the Load
- NEC and CMAA Requirements
- Rated Capacity
- Rigging Considerations
- Trainer Qualifications
- Training Course Development
- Training Techniques





# Rigging Safety

This 1 day course of instruction is designed for personnel whose responsibilities are or will be the inspection of rigging gear for material movement. You will cover the inspection and use of the approved slings and rigging hardware used in material handling, along with the effects of the environment on rigging gear.

- Basic Safe Rigging Practices
- Sling Terminology & Sling Types
- Using Sling Capacity Load Charts
- Using Shackles Properly
- Basic Sling Attachments & Configurations
- Calculating Sling Stresses
- How to Determine Load Weight
- Hooks and Wedge Sockets
- Overview of Wire Rope and End Fittings
- How to Properly Perform a Pre-use Sling Inspection
- How to Apply Federal Standards to Your Operation
- How to Use Standard Weight Tables
- Information Contained on Condition Forms



# Rigging Inspector

Many organization's across a broad spectrum of industries consider the NACB Rigger Inspection Course the highest quality program of its type. Each participant will be required to perform hands-on inspections of both damaged and used rigging gear, based on the appropriate OSHA, ASME and other applicable standards and regulations concerning removal criteria for rigging gear.

- Basic Safe Rigging Practices
- Sling Terminology & Types
- Using Sling Capacity Load Charts
- Using Shackles Properly
- Basic Sling Attachments & Configurations
- Calculating Sling Stresses
- How to Determine Load Weight
- How to Use Standard Weight Tables
- Information Contained on Condition Forms
- How to Inspect and Removable Criteria for:
  - Wire rope & wire rope slings
  - Allow chain slings
  - Metal mesh slings
  - Synthetic web & round slings
  - Rigging hardware
  - Hooks and wedge sockets
  - Below-the-hook lifting devices





# 3-D Crane Simulators & Virtual Reality



## Hands-on Training

Every industry needs cost effective, quality operator training without interfering with production, without compromising safety, and without causing undue wear & tear on equipment. With this in mind, NACB Interactive Educational Systems, Inc. has designed “The Dominator” series of crane training simulators.

In a safe, controlled virtual environment operators can develop, test, and refresh their abilities on a variety tasks and skills necessary to safely operate a crane in today’s work environment.





Let us will help you  
protect your  
employees and your  
equipment with  
comprehensive crane  
safety training



# Types of Simulators

NACB Interactive Educational Systems Inc. Simulation Systems are designed to simulate various types of cranes. Using software designs developed for the US military and commercial airlines, state-of-the-art computer graphics and hardware, our crane simulators bridge the gap between classroom and hands-on training. Through the simulation program training is provided to ensure a safe environment, controlling the load swing, and reaction to equipment malfunctions will be tested.



01

## Mobile Cranes

Telescopic Boom and Lattice Crane Truck lifts

02

## Overhead Cranes

Cab and Non-Cab Environments

03

## Tower Cranes

General Tower Cranes Situations



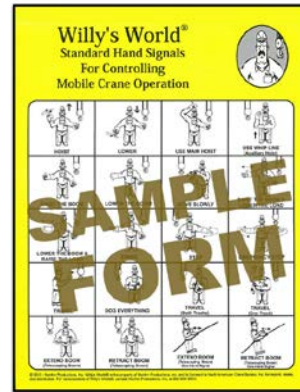
# Training Aids

Cincinnati Crane & Hoist offers a variety of safety training aids to enhance your operation. These aids alone with an extensive video library are available online in our online E-store.



## MODEL RIGGING KIT

This Model Rigging Kit uses scale down versions of the same screw pin shackles, swivel hoist rings, slings and master links that are on the job site.



## MOBILE CRANE REFERENCE CARD

Pocket reference cards are made of durable, weather resistant material and provide information for Mobile Crane operators and Signal Personnel on all the Crane hand signaling moves.



## DESKTOP SIMULATOR

NACB Interactive Educational Systems Inc. (IES) offers a desktop, abbreviated version of its acclaimed training simulators. The system comes complete with a touch screen processor/monitor, one system module, and joysticks.





Register  
online today



**Prioritizing your operations  
safety and efficiency has  
never been more  
convenient**

# THANKS FOR WATCHING



## Contact Us



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