COURSE SCHEDULE

2021

www.cranesafe.com | 800.654.5640

SAFETY TRAINING PRODUCT & SERVICES CATALOG
ABOUT NACB, INC.
Our Commitment ................................................................. 2
Training .............................................................................. 3

MOBILE CRANE COURSES
Mobile Crane Operator FASTRACK ........................................... 5
Mobile Crane Operator .............................................................. 6
Mobile Crane Operator Advanced ............................................... 6
Mobile Crane Inspector ............................................................. 7
Mobile Crane Operator Train The Trainer .................................... 8
Boom Truck Train The Trainer ................................................... 9

OVERHEAD CRANE COURSES
Overhead Crane Operator .......................................................... 11
Overhead Hoist Maintenance ...................................................... 11
Overhead Crane Inspector ........................................................ 12
Overhead Crane Train The Trainer ............................................. 13

RIGGING COURSES
Rigging Inspector .................................................................... 15
Qualified Rigger Level 1 ............................................................ 16
Qualified Rigger Level 2 ............................................................ 16
Qualified Signal Person ............................................................ 17

TOWER CRANE
Tower Crane Operator & Inspector ............................................ 19

AERIAL WORK PLATFORM
Aerial Work Platform Operator & Inspector ................................. 21
Aerial Work Platform Train The Trainer ..................................... 21

FORKLIFT
Forklift Operator & Inspector .................................................... 23
Forklift Operator Train The Trainer ........................................... 23

CERTIFICATION COMBOS
Rigging & Signal Person Combo ................................................ 25
Inspector Certification Combo .................................................. 25

ADDITIONAL MANAGEMENT COURSES
Critical Lift Planning & Lift Director .......................................... 27
Crane Assembly & Disassembly Director .................................... 27

ADDITIONAL PROGRAMS & SERVICES
On-Site Training At Your Facility ............................................... 28
Inspection Services ................................................................ 30

NCCER COURSES
NCCER Basic Rigging ................................................................. 31
NCCER Intermediate Rigging .................................................... 31
NCCER Advanced Rigging ........................................................ 31
NCCER Signal Person ............................................................... 31
NCCER Mobile Crane Operator ................................................ 32

2021 SCHEDULE OF TRAINING PROGRAMS
Dates & Locations ................................................................... 33-36

TRAINING PRODUCTS
NorAm Productions, Inc.’s In-House Training Products .................. 37
NACB Model Rigging Training Kit .............................................. 38
ABOUT US
North American Crane Bureau, Inc. (NACB) is a world leader in crane safety. For over 30 years, NACB has successfully directed the industry with high-level technical training and related services for crane & lifting equipment. This drive to increase safety awareness has led NACB to offer a host of training seminars, some of which include: Operator, Inspector, Train-the-Trainer & Rigger/Signal Person training.

We conduct in excess of 400 safety training programs annually across the globe. In addition to offering a wide variety of training programs, subsidiary NorAm® Productions Inc. has developed and published award winning safety videos and other safety training products for the lift industry.

OUR COMMITMENT
NACB, Inc.’s responsibility is to provide the most comprehensive service available, while maintaining current, state-of-the-art information on safety as it applies to our industry. We are committed to providing the industry with a standard of excellence unparalleled in the field of safety.

NACB, Inc.’s office staff, field technicians, safety programs, and material reflect our ongoing commitment.
TRAINING WITH NACB, INC.

- High Level Versatility in Crane Training: Regularly Scheduled Classroom Training, Customized On-Site Training, Simulator Based Training and Hands-On Training.
- Our Trainers and Staff have over 500 years of collective experience in training and inspection with all types of material handling.
- We’re qualified as Cal/OSHA certified inspectors for mobile cranes, overhead cranes, and tower cranes. (We also inspect under-hung cranes, hoists, rigging, lift trucks, aerial work platforms & more)
- Our Maritime personnel are recognized as marine surveyors under our Federal Accreditation with the U.S. Department of Labor/OSHA under 29 CFR part 1919 to inspect and certify equipment in Maritime categories
- Unparalleled Industry Reputation & Customer Satisfaction.
- Multiple Classroom Training Facilities across the United States
- We serve as SME’s (Subject Matter Experts) on Multiple Industry Councils & Committees
- Complete In-House Production for all Training Media including Award Winning Videos, Surveys, Proficiency Exams, Inspection Forms, and Complete Program Development
- We are a CRANE ENDORSED Accredited Assessment Center for the National Center for Construction Education Research (NCCER) and also a NCCER Accredited Training Sponsor.
- International Presence

Our Staff is seated on numerous industry councils, and has memberships & affiliations with:

* Corporate and/or Individual Memberships
MOBILE CRANE COURSES

- MOBILE CRANE OPERATOR
- MOBILE CRANE OPERATOR FASTRACK
- MOBILE CRANE INSPECTOR
- MOBILE CRANE OPERATOR ADVANCED
- MOBILE CRANE TRAIN THE TRAINER
- BOOM TRUCK TRAIN THE TRAINER
Welcome to your future career! This entry-level course is perfect for all types of students—regardless of experience level! Our program consists of 3 weeks of intensive study Monday through Friday including classroom, simulation, and hands-on training on actual cranes. This program was designed to help fill the need for properly trained and qualified mobile crane operators. This course provides you with the information you need to set for any written certification or state licensing requirement. At the end of the course, Nationally Accredited NCCER testing will be available on certain crane types.

DURING THIS STUDY THE STUDENT WILL LEARN:

- Orientation to the Trade
- Basic Principles of Cranes
- Rigging Practices
- Crane Safety
- Operating a Crane
- Communication
- Load Charts
- Advanced Operational Techniques
- Lift Planning
- Lattice Boom Assembly and Disassembly
- Machine Power Flow
- Preventive Maintenance
- Wire Rope
- Computer Aids / Operator Aids
- Load Dynamics
- On-Site Equipment Movement
- Telescopic Boom Extension and Jib Erection and Storage
- An Understanding of Reactions Required for Emergency Procedures
- Hoisting Personnel
- Transporting Requirements

PROGRAM OUTLINE

The pace of this program is fast. Each evening participants will be assigned additional material to review. Each section will have review questions. Each assignment is reviewed the following morning. Generally after the instructors’ coverage of the section, the participants are assigned written examinations. Practical Evaluations for each section (not all sections have practical evaluations) must be accomplished by each participant individually.

WEEK ONE
60% Classroom, 20% Lab** and 20% hands-on***.

WEEK TWO
50% Classroom, 20% Lab** and 30% hands-on***.

WEEK THREE
40% Classroom, 10% Lab** and 50% hands-on***.

*Several Labs are included in the classroom portions of subjects requiring them. ** Field trips, when available are included in the hands-on time. These are suggested percentages, and may be adjusted based on weather, class size, equipment availability, etc.

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.

NOTE: Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.
Mobile Crane Operator

COURSE NUMBER: MCO 102 | 3.0 CEUS | 5 DAYS | $1995.00

This 5-day program covers the role and the responsibilities of the mobile crane operator in accordance with Federal Regulations and Consensus Standards. 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.

YOU WILL LEARN ABOUT:

- Operator Requirements According to Federal Regulations & Standards
- Site Access and Usability
- Suitability & Quality of Supporting Surface
- Proper Use of Mats, Outriggers or Crawlers
- Hand Signals
- Pre-Operational Inspection
- Types of Cranes
- Verifying the Weight of the Load
- Basic Load Rigging Procedures
- Understanding Two-Blocking, Power Lines
- Accidents and Causes
- Proper Communication Between Work Crew
- Load Control and Use of Tag Lines
- Transporting the Crane and its Components
- Operating in Various Weather Conditions
- Operator Aids
- Shutdown
- Information Documented on Operator’s Checklist

Mobile Crane Operator Advanced (MCO is Prerequisite)

COURSE NUMBER: AMCO 103 | 3.0 CEUS | 5 DAYS | $1995.00

5-days of intensive training for seasoned telescopic mobile crane operators. A combination of classroom lecture, interactive workshops, telescopic crane simulation exercises, and plenty of field seat time on telescopic mobile cranes make this program one of the most sought after and demanding training programs that we offer. If you want your operators to thoroughly understand the capabilities and the limitations of telescopic mobile cranes, this is the program they need to attend.

YOU WILL LEARN ABOUT:

- Simulated Field Exercises, through Operation of Rough Terrain and/or Industrial Cranes in:
  - Travel,
  - Set-Up, and
  - Operation
- Operator Requirements According to Federal Regulations and Consensus Standards
- Operations in Various Weather Conditions
- Site Hazards and Restrictions
- Ground Bearing Pressures and Proper Use of Mats, Outriggers or Crawlers
- Lift Plans
- ASME Hand Signals
- Pre-Operational Inspection Performance
- Verifying the Weight of the Load
- Intense use of Load Chart in Solving Capacity Problems
- Two-Blocking
- Power Lines
- Public Protection
- Proper 2-Way Communication Between Operator & Signal Person
- Load Control and Use of Tag Lines
- Emergency Response Procedures
- Operator Aids

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.

NOTE: Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.
Mobile Crane Inspector

COURSE NUMBER: MCI 105 | 3.0 CEUS | 4 DAYS | $1995.00

The inspection process is the vital link to the safety and maximum utilization of your cranes. 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.

Our instructional staff provides over 100 years combined experience, offering our students the opportunity to receive documented, formal training on the inspection processes and techniques used by North American Crane Bureau, Inc. field inspection personnel.

We have inspected thousands of different pieces of lift equipment utilizing General Industry, Maritime, and Construction Safety Standards. Our inspection work sheets, developed over the years from the actual field experiences of our inspection staff, will be utilized throughout this program.

YOU WILL LEARN ABOUT:

- The Need for Inspection and Inspection Intervals
- How to Read & Apply OSHA & ASME Standards
- Inspector Qualifications
- Lockout/Tagout/Blockout
- Load Chart Interpretation & Load Testing
- Safe Operating Practices
- In-Depth Discussion of Tools Used in Inspections
- Inspection of Various Components of Carriers, Superstructures and Booms as Required by Federal Regulations, Consensus Standards & Manufacturer Requirements
- Factors Affecting Lifting Capabilities
- Types of Nondestructive Testing - Advantages and Disadvantages
- Information Presented on Inspection Form

ADD-ON OPTIONS

OPTION 1: INSPECTOR KIT
Multiple tools for inspection including: tape measure; caliper; magnifier; pocket knife and more!
$150.00

OPTION 2: NACB CERTIFICATION
A Certificate of Competency will be issued to those who successfully complete all the requirements set forth by NACB, Inc.
$495.00

OPTION 3: PLUS PACKAGE
Includes both options, a Savings of $50! NOTE: Plus package is only offered before or during the class.
$595.00

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.

NOTE: Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.
Mobile Crane Operator Train the Trainer

COURSE NUMBER: MCTT 106 | 3.0 CEUS | 5 DAYS | $2295.00

This 4-day 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 course.

NACB, Inc. has provided specialized safety training to over 100,000 crane and rigging professionals throughout the United States and overseas. Our leadership in the industry and persistent determination to offer only the best programs available has given us the ability to present safety programs of the highest quality.

TRAINERS WILL LEARN HOW TO PERFORM CLASSROOM INSTRUCTION FOR YOUR PERSONNEL IN THE FOLLOWING AREAS AND MORE:

- Crane Types & Configurations
- Applicable Terminology
- How to Read & Apply OSHA & ASME Standards
- Operator Qualifications & Responsibilities
- Stability Limitations
- Load Chart Interpretation
- Safe Operating Practices
- Factors Affecting Lifting Capabilities
- Recognizing Site Hazards
- Record Keeping Requirements
- Trainer Qualifications
- Training Course Development
- Preparation Goals
- Training Techniques
- Step-by-Step Process of Conducting Program Evaluation
- Training through Simulation

ADD-ON OPTIONS

OPTION 1: TRAINER PACKAGE
Everything you need to perform classroom instruction. Includes lesson plans, manuals and more!
$1995.00

OPTION 2: NACB CERTIFICATION
A Certificate of Competency will be issued to those who successfully complete all the requirements set forth by NACB, Inc.
$495.00

OPTION 3: PLUS PACKAGE
Includes both options, a Savings of $800! NOTE: Plus package is only offered before or during the class.
$1595.00

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.

NOTE: Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.
Boom Truck Train The Trainer

COURSE NUMBER: BTTT 100 | 1.8 CEUS | 3 DAYS | $1695.00

Boom trucks are one of the most widely used and versatile pieces of lift equipment. The 3-day Boom Truck Operator Train the Trainer program is designed to address the unique training requirements for those personnel operating these specialized mobiles cranes. All attendees will be assigned the task of specific research, development, and the presentation of materials during this course.

TRAINERS WILL LEARN HOW TO PERFORM CLASSROOM INSTRUCTION FOR YOUR PERSONNEL IN THE FOLLOWING AREAS AND MORE:

- Boom Truck Terminology
- Crane Condition
- Operator’s Check list
- Determining Crane Capacity
- How to Read & Apply OSHA & ASME Standards
- Operator Qualifications & Responsibilities
- Load Chart Interpretation
- Safe Operating Practices
- Transportation Guidelines
- Selecting the Right Sling
- Breaking Strength
- Factors Affecting Lifting Capabilities
- Recognizing Site Hazards
- Record Keeping Requirements
- Trainer Qualifications
- Training Course Development
- Preparation Goals
- Training Techniques
- Step-by-Step Process of Conducting Program Evaluation

ADD-ON OPTIONS

OPTION 1: TRAINER PACKAGE
Everything you need to perform classroom instruction. Includes lesson plans, manuals and more!
$1995.00

OPTION 2: NACB CERTIFICATION
A Certificate of Competency will be issued to those who successfully complete all the requirements set forth by NACB, Inc.
$495.00

OPTION 3: PLUS PACKAGE
Includes both options, a Savings of $800! NOTE: Plus package is only offered before or during the class.
$1595.00

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.

NOTE: Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.
Overhead Crane Operator

**COURSE NUMBER: OCO 101 | 1.8 CEUS | 2 DAYS | $1295.00**

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.

**YOU WILL LEARN ABOUT:**

- Inspection Documentation/Record Keeping Requirements
- Frequent & Periodic Inspection Requirements
- Nomenclature & Selection of Equipment
- Operational limitations of Equipment
- Required Pre-Operational Inspection
- Wire Rope Maintenance
- Accident Causes and Preventions
- ASME B30.2 Hand Signals
- Proper Communication Between Work Crew
- Shutdown

Overhead Hoist Maintenance

**COURSE NUMBER: OHM 104 | 3.0 CEUS | 5 DAYS | $2295.00**

The Overhead Hoist Maintenance 5-day, 40-hour session is designed to prepare personnel for everyday responsibilities as a competent hoist maintenance technician. With an assortment of several different hoist manufacturers represented, students will adjust brake systems, troubleshoot electrical problems, discuss inspection criteria, and conduct pneumatic system repairs.

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.

**YOU WILL LEARN ABOUT:**

- Hoist Terminology and Applicable ANSI Standards
- Lockout/Tagout/Blockout
- Hoist Types and Maintenance/Repair Guidelines:
  - Chain Hoists,
  - Electric Hoists,
  - Pneumatic Hoists
- Brush Adjustments
- Load Chain Maintenance
- Pendant Control Maintenance
- Contactors
- Wire Rope Replacement
- Trolley Installation
- Fasteners
- NEC and CMAA Requirements
- Tools Used
- Inspection Form Requirements
- Overview of Federal Regulations
- Factors Affecting Lifting Capabilities

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.*

**NOTE:** Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.
Overhead Crane Inspector

COURSE NUMBER: OCI 102 | 2.4 CEUS | 4 DAYS $1995.00

This 4-day program will address the inspection process in great detail. 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.

YOUR WILL LEARN ABOUT:

- 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
- Inspection of:
  - Mechanical Components
  - Bumper Stops
  - Crane Sequences
  - Safety Devices
  - Warning Devices
  - Limit Switches
  - Brakes
  - Runways
  - Rails
  - Drums
  - Footwalks,
  - Ladders
  - Guarding
  - Motors
  - Insulators
  - Collectors
  - and more.

ADD-ON OPTIONS

OPTION 1: INSPECTOR KIT
Multiple tools for inspection including: tape measure; caliper; magnifier; pocket knife and more!
$150.00

OPTION 2: NACB CERTIFICATION
A Certificate of Competency will be issued to those who successfully complete all the requirements set forth by NACB, Inc.
$495.00

OPTION 3: PLUS PACKAGE
Includes both options, a Savings of $50! NOTE: Plus package is only offered before or during the class.
$595.00

NOTE: Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.
Overhead Crane Train The Trainer

COURSE NUMBER: OCTT 106 | 3.0 CEUS | 4 DAYS | $2295.00

This 4-day 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 course.

TRAINERS WILL LEARN HOW TO PERFORM CLASSROOM INSTRUCTION FOR YOUR PERSONNEL IN THE FOLLOWING AREAS AND MORE:

- Compliance with State and Federal OSHA Requirements
- Record Keeping Requirements
- Operator Inspection Requirements
- Nomenclature & Selection of Equipment
- Runway and Rail Inspection Procedures
- Operational Limitations of Equipment
- Required Pre-Operational Inspection
- Correct Use of Hand Signals
- Handling the Load
- NEC and CMAA Requirements
- Rated Capacity
- Rigging Considerations
- Trainer Qualifications
- Training Course Development
- Preparation Goals
- Training Techniques
- Step-by-Step Process of Conducting Program Evaluation
- Training through Simulation

ADD-ON OPTIONS

OPTION 1: TRAINER PACKAGE

Everything you need to perform classroom instruction. Includes lesson plans, manuals and more!

$1995.00

OPTION 2: NACB CERTIFICATION

A Certificate of Competency will be issued to those who successfully complete all the requirements set forth by NACB, Inc.

$495.00

OPTION 3: PLUS PACKAGE

Includes both options, a Savings of $800! NOTE: Plus package is only offered before or during the class.

$1595.00

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.

NOTE: Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.
RIGGING SAFETY COURSES

- RIGGING INSPECTOR
- QUALIFIED SIGNAL PERSON
- QUALIFIED RIGGER LV 1
- QUALIFIED RIGGER LV 2

See pages 36-40 for schedule dates, locations & cancellation policy.
Rigging Inspector

COURSE NUMBER: RI 101 | 2.4 CEUS | 3 DAYS | $1695.00

To become a qualified in-house Rigging Inspector an individual will need to develop an advanced skill set; this course is designed to do just that.

Our training personnel have helped many individuals develop these Advanced Rigging Inspection Skills over the past 30 years. Many organization’s across a broad spectrum of industries consider the NACB Advanced 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.

Each Participant must pass both a written (with a minimum score of 85%) and practical performance examination to successfully complete the Advanced Rigging Inspector Course.

IN THIS CLASSROOM AND HANDS-ON ACTIVITY, YOU WILL LEARN ABOUT:

- 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 Apply Current Federal Standards
- How to Use Standard Weight Tables
- Information Contained on Condition Forms
- How to Inspect as well as the removal Criteria for :
  - Wire Rope & Wire Rope Slings
  - Alloy Chain Slings
  - Metal Mesh Slings
  - Synthetic Web Slings
  - Synthetic Round Slings
  - Rigging Hardware
  - Hooks and Wedge Sockets
  - Below-the-Hook-Lifting Devices

NOTE: Students that attend rigging programs will receive a copy of Willy’s Signal Person & Master Rigger Handbook – 240 page illustrated pocket reference book – a $19.95 value. In addition, students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.

ADD-ON OPTIONS

OPTION 1: INSPECTOR KIT
Multiple tools for inspection including: tape measure; caliper; magnifier; pocket knife and more!

$150.00

OPTION 2: NACB CERTIFICATION
A Certificate of Competency will be issued to those who successfully complete all the requirements set forth by NACB, Inc.

$495.00

OPTION 3: PLUS PACKAGE
Includes both options, a Savings of $50! NOTE: Plus package is only offered before or during the class.

$595.00

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.

NOTE: Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.
Qualified Rigger Level 1

COURSE NUMBER: QRL1 100 | 1 DAY | $595.00

This 1-day program is designed for personnel whose responsibilities are or will be the inspection of rigging gear for material movement. This course 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.

Qualified Rigger Level 2

COURSE NUMBER: QRL2 100 | 2 DAYS | $1295.00

Upon completion of this course, the Rigging Person must demonstrate their knowledge of the safe Rigging methods through a written examination. Practical examinations are performed to verify the hands-on capabilities of each participant.

THIS COURSE WILL INSTRUCT THE STUDENT IN THE FOLLOWING AREAS:

- Sling Terminology & Types
- Using Sling Capacity (Load) Charts
- Using Shackles Properly
- Basic Sling Attachments & Configurations
- Calculating Sling Stresses
- How to Determine Load Weight
- Hooks
- Wedge Sockets
- Overview of Wire Rope and End Fittings
- How to Properly Perform a Pre-Use Sling Inspection
- How to Apply Current Federal Standards to Your Operation

COMPLIANCE:

- ASME B30.9
- Latest OSHA standard: 29 CFR Part 1926

*CEUs are only applicable to regularly scheduled programs.

NOTE: Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.

RIGGING ADD-ON OPTION

NACB MODEL RIGGING TRAINING KIT:

This inclusive training kit uses scaled down versions of the same rigging components that are on the job site to provide a thorough understanding of how to use rigging gear. Instructor training manual with detailed training exercises included.

$440.00
Qualified Signal Person

COURSE NUMBER: QSP 100 | 1 DAYS | $595.00

A crane operator is only as good as the instructions they’re given on the job site. The Qualified Signal Person 2-day program is designed for personnel whose responsibility is to signal an operator, in compliance with ASME B30 and the latest OSHA standard. Upon completion of this course, the Signal Person must demonstrate their knowledge through a written examination. Practical examinations are performed to verify hands-on capabilities of each participant in Hand and Voice signal operations.

THIS COURSE WILL INSTRUCT THE STUDENT IN THE FOLLOWING AREAS:

- 1926.1419 Signals - General
- 1926.1420 Signals Radio, Telephone, etc.
- 1926.1421 Voice Signals
- 1926.1422 Hand Signals
- 1926.1428 Signal Person Qualification
- ASME B30 Signals
- Operational Limitations
- Crane Dynamics (swinging & Stopping)
- Boom Deflection
- Power Line Issues
- How to Apply Current Federal Standards to Your Operation

COMPLIANCE:

- ASME B30
- Latest OSHA standard: 29 CFR Part 1926

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.

NOTE: Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.
Tower Crane Operator & Inspector
COURSE NUMBER: TCO/I 101 | 3.0 CEUS | 3 DAYS $1295.00

Tower Cranes can be the largest and most complex pieces of equipment at the job site. This 3-day program provides the student with the skills and knowledge to safely inspect and operate a Tower Crane.

These cranes may be permanently mounted or mounted on a traveling base, they can adjust their operating radius. Because of the complexity of these cranes, it is important that operators and inspectors have the skills and knowledge to perform their assigned task. Having your personnel properly trained and tested is the key to safe and efficient job performance.

TOWER CRANE CERTIFICATION AVAILABLE ONLY FOR INSPECTION PORTION.

TYPES OF EQUIPMENT COVERED:
- Hammerhead Tower Cranes
- Luffing Boom Tower Cranes
- Self-Erecting Tower Cranes

TOPICS COVERED:
- Nomenclature and Types of Tower Cranes
- Review of Tower Crane Accident causation
- Components
- Factors Affecting Lifting Capacities
- Capacity Charts
- Critical Lifts
- Safety Devices
- Communications (Voice & Hand Signals)
- Wire Rope & Rigging
- Basic Rigging
- Rigging Hardware
- Reducing accidents through inspections Slings
- Safety Standards
- Implementing an inspection
- Required levels of inspection
- How to inspect structural components, sheaves, blocks, hooks, operating mechanisms, hydraulic, pneumatic and electrical systems, hydraulic cylinders, wire rope, operational aids and safety devices
- Emphasis is placed on the structural, mechanical, electrical, hydraulic and safety/liability areas of inspection
- Identifying deficiencies & safety hazards

ADD-ON OPTIONS

OPTION 1: INSPECTOR KIT
Multiple tools for inspection including: tape measure; caliper; magnifier; pocket knife and more!
$150.00

OPTION 2: NACB CERTIFICATION
A Certificate of Competency will be issued to those who successfully complete all the requirements set forth by NACB, Inc.
$495.00

OPTION 3: PLUS PACKAGE
Includes both options, a Savings of $50! NOTE: Plus package is only offered before or during the class.
$595.00

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.

NOTE: Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.
AERIAL WORK PLATFORM COURSES

- AERIAL WORK PLATFORM OPERATOR/INSPECTOR
- AERIAL WORK PLATFORM TRAIN THE TRAINER

See pages 36-40 for schedule dates, locations & cancellation policy.
Aerial Work Platform Operator/Inspector

**COURSE NUMBER: AWPO/I | 2 DAYS | $795.00**

Aerial work platforms are found throughout our industry, in factories, out on construction sites, practically anywhere there is a need for someone to reach an additional height. There are a wide variety of systems in use; some are better suited for particular environments than others. When they are used properly, they are very safe. However, used improperly, they become a potential danger not only to those operating them but to the general public in near proximity. This program will address the various types of equipment available and safe practices required by the industry.

**ADD-ON OPTIONS**

**OPTION 1:**
**INSPECTOR KIT**
Multiple tools for inspection including: tape measure; caliper; magnifier; pocket knife and more!
$150.00

**OPTION 2:**
**NACB CERTIFICATION**
A Certificate of Competency will be issued to those who successfully complete all the requirements set forth by NACB, Inc.
$495.00

**OPTION 3:**
**PLUS PACKAGE**
Includes both options, a Savings of $50! NOTE: Plus package is only offered before or during the class.
$595.00

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.

**NOTE:** Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.

AERIAL WORK PLATFORM TRAIN THE TRAINER

**COURSE NUMBER: AWPTT | 1.8 CEUS | 3 DAYS | $1695.00**

This 3-day program has been designed to provide your in-house personnel with the necessary fundamental training to train other personnel on the safe and efficient operation of aerial work platforms. Misused or abused, this equipment can be very dangerous. Found throughout the industry, the aerial work platform can be a very useful and safe piece of lift equipment. All attendees will be assigned the task of specific research, development, and the presentation of materials during this course.

**ADD-ON OPTIONS**

**OPTION 1:**
**TRAINER PACKAGE**
Everything you need to perform classroom instruction. Includes lesson plans, manuals and more!
$1995.00

**OPTION 2:**
**NACB CERTIFICATION**
A Certificate of Competency will be issued to those who successfully complete all the requirements set forth by NACB, Inc.
$495.00

**OPTION 3:**
**PLUS PACKAGE**
Includes both options, a Savings of $800! NOTE: Plus package is only offered before or during the class.
$1595.00

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.

**NOTE:** Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.
FORKLIFT TRAINING COURSES

- FORKLIFT OPERATOR & INSPECTOR
- FORKLIFT OPERATOR TRAIN THE TRAINER

See pages 36-40 for schedule dates, locations & cancellation policy.
Forklift Operator & Inspector  
**COURSE NUMBER: FLO/I 100 | 2 DAYS $795.00**

This 2-day program has been developed to provide personnel with the proper training. The course involves hands-on training as an integral part of the program. Almost everyone in industry, at one time or another has been behind the controls of a forklift. Unfortunately, the great majority of those personnel operating forklifts have had little or no formal training on the safe operation or inspection of this equipment.

### ADD-ON OPTIONS

**OPTION 1:**  
**INSPECTOR KIT**  
Multiple tools for inspection including: tape measure; caliper; magnifier; pocket knife and more!  
$150.00

**OPTION 2:**  
**NACB CERTIFICATION**  
A Certificate of Competency will be issued to those who successfully complete all the requirements set forth by NACB, Inc.  
$495.00

**OPTION 3:**  
**PLUS PACKAGE**  
Includes both options, a Savings of $50! NOTE: Plus package is only offered before or during the class.  
$595.00

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.*

**NOTE:** Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.

---

Forklift Operator Train the Trainer  
**COURSE NUMBER: LTTT 100 | 1.8 CEUS | 3 DAYS $1695.00**

Almost everyone in industry, at one time or another, has been behind the controls of a forklift. Unfortunately, the great majority of those personnel operating forklifts have had little or no formal training on the safe operation of this equipment. This 3-day program has been developed to provide personnel with the proper training techniques needed to become competent in-house trainers. All attendees will be assigned the task of specific research, development, and the presentation of materials during this course.

### ADD-ON OPTIONS

**OPTION 1:**  
**TRAINER PACKAGE**  
Everything you need to perform classroom instruction. Includes lesson plans, manuals and more!  
$1995.00

**OPTION 2:**  
**NACB CERTIFICATION**  
A Certificate of Competency will be issued to those who successfully complete all the requirements set forth by NACB, Inc.  
$495.00

**OPTION 3:**  
**PLUS PACKAGE**  
Includes both options, a Savings of $800! NOTE: Plus package is only offered before or during the class.  
$1595.00

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.*

**NOTE:** Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.
CERTIFICATION COMBO COURSES

GET MULTIPLE CERTIFICATIONS AT ONCE!
CERTIFICATION IS INCLUDED ON ALL COMBO PROGRAMS!

RIGGING & SIGNAL PERSON COMBO
INSPECTOR CERTIFICATION COMBO
RIGGING AND SIGNAL PERSON COMBO

COURSE NUMBER: RCT 100 | 7 DAYS | $3795.00

NACB’s new Rigging & Signal Person Combo course consists of a regimen of hand-picked rigging courses, bundled in an easy to digest format. Designed to save time and money when training for multiple types of equipment, this combo course features the full lineup of NACB’s signature Rigging Courses. Select the rigging programs that meet your needs and timeline.

Upon completion of this course, the Rigging Person must demonstrate their knowledge of safe rigging methods through a written examination. Practical examinations are performed to verify the hands-on capabilities of each participant. Certification is available for Rigging Inspector for an additional cost.

THIS COMBO PROGRAM FEATURES THE FOLLOWING OPTIONS:
- Rigging Inspector - 3 Days - Certification Available | For full course details see page 16.
- Qualified Signal Person - 1 Day - For full course details see page 15.
- Qualified Rigger Level 1 - 1 Day - For full course details see page 15.
- Qualified Rigger Level 2 - 2 Days - For full course details see page 15.

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.

NOTE: Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.

INSPECTOR CERTIFICATION COMBOS

COURSE NUMBER: ICC 100 A/B | 3-5 DAYS

NACB’s new Inspector Certification Combo courses consists of a full lineup of hand-picked courses. Designed to save time and money when training for multiple types of equipment, this combo courses highlights some of the most sought out certifications in the industry. Select the inspection programs that meet your needs and timeline.

This 5-day program is taught at our all-inclusive Orlando, FL Training Facility. This training features Hands-On and Crane Simulator training. Practical examinations are performed to verify the hands-on capabilities in each area of study.

COMBO A – MCI + OCI | 5 DAYS | $3995.00
- Mobile Crane Inspector | For full course details see page 7.
- Overhead Crane Inspector | For full course details see page 12.

COMBO B – FLI + AWPI | 3 DAYS | $2295.00
- Forklift Inspector | For full course details see page 23.
- Aerial Work Platform Inspector | For full course details see page 21.

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.

NOTE: Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.
CRANE MANAGEMENT COURSES

- CRITICAL LIFT PLANNING & DIRECTOR
- CRANE ASSEMBLY & DISASSEMBLY DIRECTOR

See pages 36-40 for schedule dates, locations & cancellation policy.
CRITICAL LIFT PLANNING & LIFT DIRECTOR

COURSE NUMBER: CLP/LD 100 | 1.2 CEUS | 2 DAYS $1595.00

All loads that are to be lifted by a crane, whether small or large, need some form of planning. Pick points, swing radius, potential obstructions, weather conditions, etc. all play a necessary role in determining the safety of the lift. This 2-day course will cover the many different aspects of proper lift planning for both critical and non-critical lifts as directed by the new ASME P30 safety standard.

PRE-REQUISITES:
Class participants must have a basic understanding of crane operation and set-up prior to taking this class. This knowledge includes:
1. Knowledge and understanding on how to use a crane's load chart to determine its rated capacity for any and all crane configurations.
2. Basic understanding of types and uses of various slings, rigging gear, and below-the-hook devices.
3. Knowledge of basic principles of lifting personnel and associated equipment.

TOPICS COVERED:
• Types of lifting activity considerations
• Identify type of planning required
• Usage
• Non-critical lift planning
• Critical lift planning
• Size of crew needed and their responsibilities
• Understanding load charts
• Non-critical lift criteria
• Critical lift criteria/definitions
• Execution of lift plan

CRANE ASSEMBLY & DISASSEMBLY DIRECTOR

COURSE NUMBER: CA/D DIR 100 | 1.8 CEUS | 2 DAYS $1295.00

This 2-day course will cover the requirements of OSHA's new Construction Standards for the Director overseeing the Assembly and Disassembly of cranes, particularly the 29 CF 1926.1403 through 1406 and 1412 standards. The A/D Director has a great deal of overall responsibility for the safety of the operation.

TOPICS COVERED:
• A/D Director Responsibilities
• Equipment Inspection
• Synthetic Sling Usage
• Outriggers and Stabilizers
• Tower Crane Supplements
• General Requirements
• Crew Communication
• Work Procedures
• Load Weights
• Rigging Requirements
• Component Selection

*CEUS ARE ONLY APPLICABLE TO REGULARLY SCHEDULE PROGRAMS.

NOTE: Students must provide their own personal protective equipment (PPE) such as gloves, hard hats, safety glasses, appropriate footwear, etc.
ON-SITE TRAINING AT YOUR FACILITY

CAN'T MAKE IT TO ONE OF OUR SAFETY TRAINING SESSIONS? NO PROBLEM, WE CAN COME TO YOURS!
We can come to your facility, train your people on your equipment, and offer training specific to your operational requirements! There are several options available to you for on-site presentation of programs:

CHOOSING THE RIGHT TRAINING OPTION:

► **OPTION 1**
We can present any of our regular scheduled training programs at your facility, as they are currently being presented.

► **OPTION 2**
We can tailor a particular program around your facility and your personnel to be specific to your equipment.

► **OPTION 3**
We can provide hands-on instruction specific to your equipment, utilizing your equipment.

► **OPTION 4**
We can provide testing and certification documentation specific to your equipment.

► BENEFITS
  - Customized on-site training to fit your particular needs
  - Training oriented to all skill levels from the beginner to the seasoned veteran
  - Savings of company time and travel expenses
  - Actual hands-on training with your equipment
  - Certification/Authorization of students in 1 to 5 day programs

► RESULTS
  - Safer working environment
  - Better qualified operators/supervisors/trainers/inspectors
  - Eliminate costly production downtime
  - Reduces cost of damages to products, personnel, and equipment
  - Shows that you care about your employees

► WHY NACB, INC.?
  - Largest full service lift equipment training company in the country
  - Flexibility in working with your schedules and personnel
  - A proven record of training tens of thousands of lift equipment operators/supervisors/trainers/inspectors throughout the world

SCHEDULE A PROGRAM AT YOUR FACILITY!
CALL OR VISIT 1.800.654.5640 | WWW.CRANESAFE.COM
ON-SITE PROGRAMS

- Advanced Rigging Practices & Principles
- Advanced Rigging Practices & Principles Train the Trainer
- Advanced Rigging Seminar
- Aerial Work Platform/Bucket Truck Operator
- Aerial Work Platform/Bucket Truck Inspector
- Aerial Work Platform/Bucket Truck Train the Trainer
- Boom Truck Operator
- Boom Truck Operator Train the Trainer
- Crane & Equipment Management
- Crane Assembly & Disassembly Director
- Critical Lift Planning & Lift Director
- Digger Derrick Operator
- Industrial Crane Operator
- Industrial Crane Train The Trainer
- Inspector Licensing Preparation Program
- Forklift Inspector
- Forklift Operator
- Forklift Train the Trainer
- Mobile Crane Inspector
- Mobile Crane Operator
- Mobile Crane Train The Trainer
- Overhead Crane Inspector
- Overhead Crane Operator
- Overhead Crane Static Stepless Controls
- Overhead Crane Variable Frequency Drive (VFD)
- Overhead Crane Train The Trainer
- Overhead Hoist Inspector/Maintenance
- Pedestal Crane Inspector
- Pedestal Crane Operator
- Pedestal Crane Train The Trainer
- Portal Crane Operator
- Portal Crane Train The Trainer
- Qualified Rigger Level 1
- Qualified Rigger Level 2
- Qualified Rigger Evaluator Training
- Qualified Signal Person Evaluator Training
- Rigging Safety
- Rigging Safety Train The Trainer
- Skid Steer Operator
- Tower Crane Operator

NCCER CERTIFICATIONS AVAILABLE!
INSPECTION SERVICES

NACB INSPECTIONS
North American Crane Bureau, Inc. is accredited by several recognized authorities to inspect and issue documents of certification for material handling devices:

- Accredited — U.S. Department of Labor/OSHA
- Accredited — Cal/OSHA
- Accredited — WISHA
- Accredited — Nevada/OSHA
- Accredited — State of New Mexico

WE PROVIDE SAFETY AND COMPLIANCE INSPECTIONS FOR:

- Annual & Quadrennial Maritime Applications:
  29 CFR part 1919
- Monthly, Quarterly & Annual General Industry Applications:
  29 CFR part 1910, ASME/ANSI B30 Series
- Monthly, Quarterly & Annual Construction Industry Applications:
  29 CFR part 1926, ASME/ANSI B30 Series
- Pre-Purchase Acceptance/Condition Inspections
- Critical Lift Support
NCCER Courses

NCCER Basic Rigging
WRITTEN ASSESSMENT
COURSE NUMBER: NCCERBR 100 | 2 DAYS $1595.00
This program includes 1 1/2-days of instruction and 1/2-day of written assessment. This course includes detailed information required to prepare you for the NCCER's Written Assessment & Practical Examination.

Upon completion of this course, the Basic Rigger safely uses and recognizes the limitations of chain, synthetic, metal mesh, and wire rope slings as well as specific rigging hardware to include: hooks and similar attaching devices, shackles, wire rope clips, clamps, eyebolts, softeners, and taglines.

The Basic Rigger identifies common load configurations and positioning and demonstrates specific knowledge of crane operations including voice and radio communications (as defined in ASME B30.2, ASME B30.3, ASME B30.5, ASME B30.6), personal fall protection methods, emergency procedures, and hazards and restrictions when working in proximity to overhead electric lines and equipment.

NCCER Intermediate Rigging
WRITTEN ASSESSMENT
COURSE NUMBER: NCCERIR 101 | 3 DAYS $1795.00
This program includes 2 1/2-days of instruction and 1/2-day of testing. This course includes detailed information required to prepare you for the NCCER's Written Assessment & Practical Examination.

In addition to being knowledgeable in all Basic Rigger tasks, the Intermediate Rigger must also demonstrate intermediate level of proficiency in all the rigger tasks. The rigger performs specific rigging operations using come-along and chain hoists, reeving, rigging hitches and knots, anchor points, synthetic ropes, wire ropes, chains, spreader bars and equalizing beams, synthetic slings, lifting points, dollies, trollies, winches, bars and levers, rigging jacks, links and rings, plate clamps, and cable dogs/grips.

The Intermediate Rigger is proficient in load dynamics and load weight estimation or determination as they relate to the rigging operation. The Intermediate Rigger calculates equipment capacities, and applies D/d ratios, vectors, angles, boom angles and load radius as they relate to lifting and/or rigging operations.

NCCER Advanced Rigging
WRITTEN ASSESSMENT | COURSE NUMBER: NCCERAR 102 | 3 DAYS $1995.00
This program includes 2 1/2-days of instruction and 1/2-day of testing. This course includes detailed information required to prepare you for the NCCER's Written Assessment & Practical Examination.

In addition to being knowledgeable in all basic and intermediate rigger tasks, the advanced rigger must also demonstrate advanced level of proficiency in all the rigger tasks. The advanced rigger performs specific rigging operations as they relate to blind hoists, traveling with a load, working in close quarters, and lift procedures for personnel.

The advanced rigger applies specific rigging criteria from the manufacturer or equipment representative to the safe and appropriate methods of erection, dismantling, jumping, and reconfiguring of cranes. The advanced rigger also applies specific rigging criteria for lifting a single load with multiple cranes.

The advanced rigger identifies and interprets load indicators and safety devices, capacity or load charts, specific mechanical advantages, the center of gravity as it relates to the rigging operation, as well as the effects of angles or indirect pulling in the rigging operation.

The advanced rigger is also proficient in the direction of single, multiple specialized lifts. The advanced rigger is knowledgeable and can demonstrate proficiency in the design, documentation, and implementation of lift planning.

NCCER Signal Person
WRITTEN ASSESSMENT | COURSE NUMBER: NCCERSP 103 | 2 DAYS $1495.00
This program includes 1 1/2-days of instruction and 1/2-day of testing. This course includes detailed information required to prepare you for the NCCER's Written Assessment & Practical Examination.

The Signal Person is proficient in the performance of hand and verbal signals, including the standard methods for hand signals as required by ASME B30.2, ASME B30.3, ASME B30.5, and ASME B30.6. The Signal Person demonstrates a basic knowledge of crane operations and limitations, including crane dynamics involved in the swinging, controlling and stopping of loads, and the boom deflections from hoisting loads.

The Signal Person demonstrates specific knowledge of crane operations including voice and radio communications, personal fall protection methods, emergency procedures, and hazards and restrictions with working in proximity to overhead electric lines and equipment.

*NCCER Practical Examinations are available beginning the day after the course ends. Please contact a representative to register for practical examination, as there are a limited number of examination spaces. Additional cost apply for NCCER’s practical examination.

See back panel for cancellation policy.
INDUSTRY-RECOGNIZED CRANE CERTIFICATIONS

NCCER is your one-stop shop for all of your crane certification needs. The programs allow you to test operators at YOUR site using YOUR equipment.

Each certification program offers:

- Assessment and practical examination results within 15 minutes of submission
- No rush fees
- Real-time online verification
- Portable, industry-recognized credentials

Find out how your organization can become accredited to provide NCCER training and assessments today. Call 1.888.622.3720 or visit nccer.org/crane.

Mobile Crane Operator
- Thirteen equipment-specific certifications (including capacity)
- Accredited by ANSI and meets Option 1 certification by an accredited crane operator testing organization under OSHA 29 CFR part 1926.1427*

Tower Crane Operator
- Three equipment-specific certifications

Rigger
- Three-level certification program

Signal Person
- Certification program

*NCCER’s online database records equipment type and capacity, required by OSHA 29 CFR part 1926.
# NACB 2021 Course Schedule

<table>
<thead>
<tr>
<th>Program</th>
<th>Start Date</th>
<th>End Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>AERIAL WORK PLATFORM OPERATOR &amp; INSPECTOR</td>
<td>February 1</td>
<td>February 2</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>AWPO/I</td>
<td>See page 21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>April 26</td>
<td>April 27</td>
<td></td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>June 2</td>
<td>June 3</td>
<td></td>
<td>Houston, TX</td>
</tr>
<tr>
<td>July 21</td>
<td>July 22</td>
<td></td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td>December 20</td>
<td>December 21</td>
<td></td>
<td>Houston, TX</td>
</tr>
<tr>
<td>AERIAL WORK PLATFORM TRAIN THE TRAINER</td>
<td>January 20</td>
<td>January 22</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>AWPTT</td>
<td>See page 21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>March 10</td>
<td>March 12</td>
<td></td>
<td>Houston, TX</td>
</tr>
<tr>
<td>April 14</td>
<td>April 16</td>
<td></td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td>May 12</td>
<td>May 14</td>
<td></td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>June 8</td>
<td>June 10</td>
<td></td>
<td>Houston, TX</td>
</tr>
<tr>
<td>July 13</td>
<td>July 15</td>
<td></td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td>August 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>August 13</td>
<td>Houston, TX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>September 21</td>
<td>September 23</td>
<td></td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>October 19</td>
<td>October 21</td>
<td></td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>December 7</td>
<td>December 9</td>
<td></td>
<td>Houston, TX</td>
</tr>
<tr>
<td>BOOM TRUCK TRAIN THE TRAINER</td>
<td>February 3</td>
<td>February 5</td>
<td>Houston, TX</td>
</tr>
<tr>
<td>BTTT</td>
<td>See page 9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>March 29</td>
<td>March 31</td>
<td></td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>June 8</td>
<td>June 10</td>
<td></td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>July 13</td>
<td>July 15</td>
<td></td>
<td>Houston, TX</td>
</tr>
<tr>
<td>August 23</td>
<td>August 25</td>
<td></td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>December 20</td>
<td>December 22</td>
<td></td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>CRANE ASSEMBLY &amp; DISASSEMBLY DIRECTOR</td>
<td>January 25</td>
<td>January 26</td>
<td>Houston, TX</td>
</tr>
<tr>
<td>CADD</td>
<td>See page 27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>March 15</td>
<td>March 16</td>
<td></td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>March 29</td>
<td>March 30</td>
<td></td>
<td>Houston, TX</td>
</tr>
<tr>
<td>June 28</td>
<td>June 29</td>
<td></td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>July 28</td>
<td>July 29</td>
<td></td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td>September 2</td>
<td>September 3</td>
<td></td>
<td>Houston, TX</td>
</tr>
<tr>
<td>October 5</td>
<td>October 6</td>
<td></td>
<td>Houston, TX</td>
</tr>
<tr>
<td>CRITICAL LIFT PLANNING &amp; LIFT DIRECTOR</td>
<td>January 27</td>
<td>January 28</td>
<td>Houston, TX</td>
</tr>
<tr>
<td>LPLD</td>
<td>See Page 27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>March 15</td>
<td>March 16</td>
<td></td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td>March 31</td>
<td>April 1</td>
<td></td>
<td>Houston, TX</td>
</tr>
<tr>
<td>June 30</td>
<td>July 1</td>
<td></td>
<td>Houston, TX</td>
</tr>
<tr>
<td>July 15</td>
<td>July 16</td>
<td></td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>August 9</td>
<td>August 10</td>
<td></td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>October 7</td>
<td>October 8</td>
<td></td>
<td>Houston, TX</td>
</tr>
<tr>
<td>December 1</td>
<td>December 2</td>
<td></td>
<td>Houston, TX</td>
</tr>
<tr>
<td>FORKLIFT OPERATOR &amp; INSPECTOR</td>
<td>February 10</td>
<td>February 11</td>
<td>Houston, TX</td>
</tr>
<tr>
<td>FLO/I</td>
<td>See Page 23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>March 2</td>
<td>March 3</td>
<td></td>
<td>Houston, TX</td>
</tr>
<tr>
<td>May 5</td>
<td>May 6</td>
<td></td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>August 4</td>
<td>August 5</td>
<td></td>
<td>Cincinnati, OH</td>
</tr>
</tbody>
</table>

Note: Regularly scheduled classes are based on minimum enrollments, instructor availability, and are subject to change.
<table>
<thead>
<tr>
<th>Program</th>
<th>Start Date</th>
<th>End Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORKLIFT OPERATOR TRAIN THE TRAINER</td>
<td>March 3</td>
<td>March 5</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>FLTT</td>
<td>See Page 23</td>
<td>June 8</td>
<td>June 10</td>
</tr>
<tr>
<td></td>
<td>August 4</td>
<td>August 6</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>October 12</td>
<td>October 14</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>December 21</td>
<td>December 23</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>September 9</td>
<td>September 10</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>November 22</td>
<td>November 23</td>
<td>Houston, TX</td>
</tr>
<tr>
<td>INSPECTOR CERTIFICATION COMBO</td>
<td>March 22</td>
<td>March 26</td>
<td>Houston, TX</td>
</tr>
<tr>
<td>ICC</td>
<td>COMBO 1: MCI + OCI</td>
<td>See Page 25</td>
<td>September 27</td>
</tr>
<tr>
<td>ICC</td>
<td>COMBO 2: FLI + AWPI</td>
<td>See Page 25</td>
<td>October 4</td>
</tr>
<tr>
<td>MOBILE CRANE INSPECTOR</td>
<td>January 5</td>
<td>January 8</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td>MCI</td>
<td>See Page 7</td>
<td>February 2</td>
<td>February 5</td>
</tr>
<tr>
<td></td>
<td>March 1</td>
<td>March 4</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>April 20</td>
<td>April 23</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>May 25</td>
<td>May 28</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>June 15</td>
<td>June 18</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>July 6</td>
<td>July 9</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>August 10</td>
<td>August 13</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>September 7</td>
<td>September 10</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>October 26</td>
<td>October 29</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>November 9</td>
<td>November 12</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>December 13</td>
<td>December 16</td>
<td>Houston, TX</td>
</tr>
<tr>
<td>MOBILE CRANE OPERATOR</td>
<td>January 4</td>
<td>January 8</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>MCO</td>
<td>See Page 6</td>
<td>February 15</td>
<td>February 19</td>
</tr>
<tr>
<td></td>
<td>March 8</td>
<td>March 12</td>
<td>Kansas, MO</td>
</tr>
<tr>
<td></td>
<td>April 12</td>
<td>April 16</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>May 17</td>
<td>May 21</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>June 14</td>
<td>June 18</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>August 2</td>
<td>August 6</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>September 27</td>
<td>October 1</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>November 1</td>
<td>November 5</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>December 6</td>
<td>December 10</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>MOBILE CRANE OPERATOR TRAIN THE TRAINER</td>
<td>January 11</td>
<td>January 15</td>
<td>Houston, TX</td>
</tr>
<tr>
<td>MCTT</td>
<td>See Page 8</td>
<td>February 8</td>
<td>February 12</td>
</tr>
<tr>
<td></td>
<td>March 22</td>
<td>March 26</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>April 26</td>
<td>April 30</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>May 17</td>
<td>May 21</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>June 21</td>
<td>June 25</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>July 26</td>
<td>June 30</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>August 23</td>
<td>August 27</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>September 20</td>
<td>September 24</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>October 25</td>
<td>October 29</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>November 8</td>
<td>November 12</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>November 29</td>
<td>December 3</td>
<td>Cincinnati, OH</td>
</tr>
</tbody>
</table>

Note: Regularly scheduled classes are based on minimum enrollments, instructor availability, and are subject to change.
<table>
<thead>
<tr>
<th>Program</th>
<th>Start Date</th>
<th>End Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERHEAD CRANE INSPECTOR</td>
<td>January 5</td>
<td>January 8</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>February 2</td>
<td>February 5</td>
<td>Atlanta, GA</td>
</tr>
<tr>
<td></td>
<td>March 30</td>
<td>April 2</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>May 11</td>
<td>May 14</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>June 1</td>
<td>June 4</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>July 27</td>
<td>July 30</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>August 24</td>
<td>August 27</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>September 14</td>
<td>September 17</td>
<td>Portland, OR</td>
</tr>
<tr>
<td></td>
<td>October 12</td>
<td>October 15</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>November 2</td>
<td>November 5</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>December 14</td>
<td>December 17</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td>OVERHEAD CRANE OPERATOR</td>
<td>February 15</td>
<td>February 16</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>April 1</td>
<td>April 2</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>May 11</td>
<td>May 12</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>June 2</td>
<td>June 3</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>September 1</td>
<td>September 2</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>November 17</td>
<td>November 18</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td>OVERHEAD CRANE TRAIN THE TRAINER</td>
<td>January 26</td>
<td>January 29</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>February 9</td>
<td>February 12</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>March 2</td>
<td>March 5</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>April 6</td>
<td>April 9</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>May 4</td>
<td>May 7</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>June 22</td>
<td>June 25</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>July 20</td>
<td>July 23</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>August 17</td>
<td>August 20</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>September 28</td>
<td>October 1</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>October 18</td>
<td>October 21</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>November 16</td>
<td>November 19</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>November 30</td>
<td>December 3</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>OVERHEAD HOIST MAINTENANCE</td>
<td>January 18</td>
<td>January 22</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>February 22</td>
<td>February 26</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>March 8</td>
<td>March 12</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>May 17</td>
<td>May 21</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>June 14</td>
<td>June 18</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>August 2</td>
<td>August 6</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>September 20</td>
<td>September 24</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>October 4</td>
<td>October 8</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>November 1</td>
<td>November 5</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>December 6</td>
<td>December 10</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td>QUALIFIED RIGGER LEVEL 1</td>
<td>February 9</td>
<td>February 9</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>March 17</td>
<td>March 17</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>April 6</td>
<td>April 6</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>September 14</td>
<td>September 14</td>
<td>Houston, TX</td>
</tr>
<tr>
<td></td>
<td>October 5</td>
<td>October 5</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>November 22</td>
<td>November 22</td>
<td>Houston, TX</td>
</tr>
</tbody>
</table>

Note: Regularly scheduled classes are based on minimum enrollments, instructor availability, and are subject to change.
<table>
<thead>
<tr>
<th>Program</th>
<th>Start Date</th>
<th>End Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUALIFIED RIGGER LEVEL 2</td>
<td>January 13</td>
<td>January 15</td>
<td>Orlando, FL</td>
</tr>
<tr>
<td>QRL2</td>
<td>See Page 16</td>
<td>March 10</td>
<td>March 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>April 7</td>
<td>April 9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>June 30</td>
<td>July 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>July 7</td>
<td>July 9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>September 15</td>
<td>September 17</td>
</tr>
<tr>
<td></td>
<td></td>
<td>October 20</td>
<td>October 22</td>
</tr>
<tr>
<td></td>
<td></td>
<td>November 10</td>
<td>November 12</td>
</tr>
<tr>
<td>QUALIFIED SIGNAL PERSON</td>
<td>January 11</td>
<td>January 12</td>
<td></td>
</tr>
<tr>
<td>QSP</td>
<td>See Page 17</td>
<td>February 22</td>
<td>February 23</td>
</tr>
<tr>
<td></td>
<td></td>
<td>March 8</td>
<td>March 9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>April 28</td>
<td>April 29</td>
</tr>
<tr>
<td></td>
<td></td>
<td>June 28</td>
<td>June 29</td>
</tr>
<tr>
<td></td>
<td></td>
<td>July 13</td>
<td>July 14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>August 11</td>
<td>August 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>August 31</td>
<td>September 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>November 29</td>
<td>November 30</td>
</tr>
<tr>
<td>RIGGING AND SIGNAL PERSON COMBO</td>
<td>May 3</td>
<td>May 7</td>
<td></td>
</tr>
<tr>
<td>COMBO OPTIONS: QRL1, QRL2, QSP, RI</td>
<td>October 11</td>
<td>October 15</td>
<td></td>
</tr>
<tr>
<td>RCT</td>
<td>See Page 25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RIGGING INSPECTOR</td>
<td>January 18</td>
<td>January 20</td>
<td></td>
</tr>
<tr>
<td>RI</td>
<td>See Page 15</td>
<td>February 15</td>
<td>February 17</td>
</tr>
<tr>
<td></td>
<td></td>
<td>March 15</td>
<td>March 17</td>
</tr>
<tr>
<td></td>
<td></td>
<td>April 14</td>
<td>April 16</td>
</tr>
<tr>
<td></td>
<td></td>
<td>May 26</td>
<td>May 28</td>
</tr>
<tr>
<td></td>
<td></td>
<td>June 22</td>
<td>June 24</td>
</tr>
<tr>
<td></td>
<td></td>
<td>July 20</td>
<td>July 22</td>
</tr>
<tr>
<td></td>
<td></td>
<td>August 18</td>
<td>August 20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>September 14</td>
<td>September 16</td>
</tr>
<tr>
<td></td>
<td></td>
<td>October 26</td>
<td>October 28</td>
</tr>
<tr>
<td></td>
<td></td>
<td>November 16</td>
<td>November 18</td>
</tr>
<tr>
<td></td>
<td></td>
<td>December 15</td>
<td>December 17</td>
</tr>
<tr>
<td>TOWER CRANE OPERATOR &amp; INSPECTOR</td>
<td>March 17</td>
<td>March 19</td>
<td></td>
</tr>
<tr>
<td>TCO/I</td>
<td>See Page 19</td>
<td>April 28</td>
<td>April 30</td>
</tr>
</tbody>
</table>

Note: Regularly scheduled classes are based on minimum enrollments, instructor availability, and are subject to change.
YOUR #1 SOURCE FOR:

- SAFETY TRAINING DVDS
- TRAINING WORKBOOKS
- SAFETY PRODUCTS
- OPERATOR PROGRAMS
- TRAINING AIDS

IN HOUSE TRAINING MADE EASY

cranesafe.com/onlinestore  |  800.654.5640
NEED TO TRAIN YOUR PERSONNEL ON HOW TO PROPERLY USE RIGGING GEAR?

The NACB Model Rigging Training Kit is an excellent training aid to provide a thorough, long-term understanding of how to use rigging gear.

This inclusive kit uses scaled down versions of the same screw pin shackles, swivel hoist rings, slings and master links that are on the job site. In addition, an instructor training manual that contains a series of training exercises is included. Lifting arm included!

The Kit comes with multiple loads and a variety of individual components and sling lengths to provide hands-on learning for rigging concepts you need in the real world:

• Bridle Hitches
• Basket Hitches
• Choker Hitches
• Pivoting a Load
• Load Control
• Off-Center Center of Gravity
• Eye Bolt De-rating for Angular Loads
• Shackle Orientation
• Length / Height Sling Tension Multipliers
• ... and more!
REGISTRATION, FEES, AND NOTES

Fees for all seminars and conferences are listed with each program description. The full fee is payable upon receipt of confirmation, or payment can be mailed with your registration no later than two weeks prior to program start date. Registration fee includes the cost of seminar materials. NACB, Inc. reserves the right to change course content and location without notice.

PLEASE NOTE: Regularly scheduled classes are based on minimum enrollments, and instructor availability, and are subject to change.

CONTACT US TO REGISTER:
224 W Central Pkwy, Suite 1024
Altamonte Springs, FL 32714
NACBGROUP@CRANESAFE.COM
1.800.654.5640 | WWW.CRANESAFE.COM

FOR YOUR CONVENIENCE, WE ACCEPT THESE CREDIT CARDS:

CANCELLATION POLICY

Confirmed registrations may be canceled by contacting NACB, Inc. Unless stated otherwise in written form, cancellations received thirty (30) days or earlier prior to the course start date are eligible for full refund minus 10% applicable bank fees if paid by credit card. Cancellations received between fifteen (15) and thirty (30) days prior to the course start date are subject to a 50% cancellation fee. All other cancellations are liable for entire registration fee. Student and/or program substitutions are acceptable at the same or lesser tuition rate for the duration of the calendar year. NACB, Inc., reserves the right to cancel any sponsored event up to five (5) working days prior to the scheduled event start date. All travel reservations and/or cancellations are the sole responsibility of the attendee. Please make all airline and travel arrangements with this in mind.