

Effective Crane and Rigging Training Methods



Presenter: **Mike Parnell**
ITI President/CEO

ASME B30 Vice Chair (Cranes & Rigging)
ASME P30 Chair (Lift Planning)

The views expressed in this presentation are that of ITI and are not necessarily the views of the ASME or any of its committees



A World Leader in Crane & Rigging Training

We Rig it Right!
iti.com

TRAINING

FIELD SERVICES

CERTIFICATION

BOOKSTORE

E-LEARNING

WHO WE ARE

A world leader in crane and rigging training and consulting



We Rig It Right!



WHO WE ARE

Serves a Variety of Industries

- Aerospace
- Chemicals
- Construction
- DOD
- DOE
- Electric Utility
- Hydro
- Manufacturing
- Maritime
- Mining
- Nuclear
- Oil & Gas
- Pulp & Paper
- Railroad
- Shipbuilding
- Wind Energy



WHO WE ARE

Provided Services in Over 20 Countries Worldwide



United States of America



Australia



Azerbaijan



Brazil



Canada



China



Columbia



Indonesia



Italy



Mexico



Nigeria



Panama



Qatar



Saudi Arabia



Singapore



Sweden



United Arab Emirates

OUR CUSTOMERS

The World's Greatest Organizations Trust ITI's Expertise with their Crane & Rigging Operations



MIKE PARNELL – ABOUT THE SPEAKER

Mr. Parnell has a wealth of knowledge regarding cranes, rigging, and lifting activities throughout a variety of industries. Mike currently sits as the Vice Chair of the ASME (American Society of Mechanical Engineers) B30 Main Committee which sets the standards in the US for cranes and rigging.



He is also the Chair of the ASME P30 Main Committee which sets the standards for lift planning. ASME standards are also adopted by many countries around the world, including Canada.

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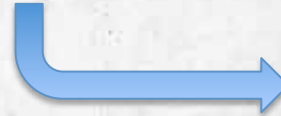
TODAY'S AGENDA

- How to Build a Corporate Training Strategy
- What Should Your Employees be Learning According to You, OSHA, ASME?
- Train-the-Trainer Pros & Cons
- Mobile Crane Training: 5 Elements that Should be in Your Next Program
- Rigging Training: 5 Elements that Should be in Your Next Program
- Question & Answer



QUICK TIPS

- Interactive Discussion
- Long-Term Mindset – Think about Expansion, Consolidation, and Preparing for Tomorrow
- Questions are Welcomed
- Utilize the Control Panel to:
 - - Type Questions into the Chat Box
 - - Answer Poll Questions
- Q & A Session after Presentation



The screenshot shows the 'GoToWebinar Control Panel' window. It has a blue header bar with the title 'GoToWebinar Control Panel'. Below the header, there are two main sections: 'Audio' and 'Questions'. The 'Audio' section is expanded and shows options for 'Use: Telephone' (selected) and 'Mic & Speakers'. Below this, it displays dialing information: 'Dial: +1 (646) 307-1706', 'Access Code: 400-990-383', and 'Audio PIN: 63'. A note says 'If you're already on the call, press #63# now.' with a link for 'Problem dialing in?'. The 'Questions' section is also expanded and shows a green message box with the text: 'Welcome to the Webinar! We will begin momentarily. While you're waiting, feel free to visit <http://iti.com> to learn about ITI.' Below the message box is a text input field with the placeholder 'Type question here.' and a 'Send' button. At the bottom of the panel, there is a footer with the text: 'Cranes, Rigging, and Your Organization with ITI President Mike Parnell Webinar ID# 595-462-098' and the 'GoToWebinar' logo.

HOW TO BUILD A CORPORATE TRAINING STRATEGY

What and Why?

- Strategy, Approach, Methodology
- Benefits:
 - Cost Efficient Solutions
 - Cost-Efficient Time Spent by Employees
 - Effective Training Outcomes



HOW TO BUILD A CORPORATE TRAINING STRATEGY

Potential Solutions

- Expert Vendor Training On-Site
- Expert Vendor Training Off-Site
- Training & Certification Resources
- [E-Learning Modules](#)
- Train-the-Trainer
- On-Site, In-House Instruction
- Consulting Services



HOW TO BUILD **A CORPORATE TRAINING STRATEGY**

Development Approach

1. What do we do? What do we pay others to do?
2. Define your Tasks
3. Measure the Current Expertise
4. Find the Knowledge Gaps
5. Cross-training of Employees
6. Measure the Results
7. Build the Pipeline for the Future
8. Now can we do what we pay others to do for less \$?



HOW TO BUILD **A CORPORATE TRAINING STRATEGY**

The Requirements and Standards

1. Have we met OSHA minimums?
2. People, Places and Things
3. Methods and Processes
4. Management Support
5. Small Investment in Equipment with Trained Employees
6. Best Practices / Use the Playbook
7. Certification or Qualification Required?



HOW TO BUILD **A CORPORATE TRAINING STRATEGY**

Employees Become Owners of the Process

1. Exercise the New Muscles
2. Milestone Measuring
3. Find the Gaps
4. Target Specialized Training
(laser beam, .30-06, surgical strike)
5. Measure the Results
6. Keep Supporting the People



SOURCES OF INFORMATION

Training Resources

- On the Job
- Vendor (1-2 hr)
- In-house (2-4 hr)
- Manufacturer (2-4 hr)
- E-Learning (1-10 hr)
- Specialist (8-40 hr)



TRAIN THE TRAINER **PROS AND CONS**

Should our company conduct in-house training on X?

1

Full-Time Instructor – Is there enough specific training that the training department personnel can afford a full-time corporate instructor for X?

TRAIN THE TRAINER **PROS AND CONS**

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Subject-Matter Expert – Is the corporate instructor a subject matter expert in the content?

TRAIN THE TRAINER **PROS AND CONS**

Should our company conduct in-house training on X?

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Full-Time Instructor – Is there enough specific training that the training department personnel can afford a full-time corporate instructor for X?

2

Subject-Matter Expert – Is the corporate instructor a subject matter expert in the content?

3

Curriculum & Dedicated Training Resources – Current curriculum, fresh presentation and dedicate training and hands-on environments?

TRAIN THE TRAINER **PROS AND CONS**

Qualified Training Provider

The advantages of using a proven and reputable 3rd party training company:

1. Training sessions are generally succinct and properly paced
2. Well organized
3. Offer problem solving methods borrowed from other industry operations
4. More objective
5. The latest changes to crane and rigging regulations, standards and guidelines
6. The instructors are trained to overcome objections and resistance-to-change in an adult education setting
7. The instructors are generally more attuned to eliminating bad habits of the candidates using industry “best practices”

MOBILE CRANE TRAINING: 5 ELEMENTS THAT SHOULD BE IN YOUR NEXT PROGRAM

1

Basics

- Set-up
- Controls / Functions
- Limitations
- Pre-op Inspections
- E-Learning Delivery



MOBILE CRANE TRAINING: 5 ELEMENTS THAT SHOULD BE IN YOUR NEXT PROGRAM

2

Core Knowledge

- Operating Practices
- Load Charts
- Manufacturer's Instructions
- OSHA / ASME



MOBILE CRANE TRAINING: 5 ELEMENTS THAT SHOULD BE IN YOUR NEXT PROGRAM

3

Practical

- Seat Time
- Seat Time
- Seat Time
- Try for 30% of Program



MOBILE CRANE TRAINING: 5 ELEMENTS THAT SHOULD BE IN YOUR NEXT PROGRAM

4

Specialty

- Live Loads
- Signals, Tag lines
- Powerlines
- Obstructions
- Parking



MOBILE CRANE TRAINING: 5 ELEMENTS THAT SHOULD BE IN YOUR NEXT PROGRAM

5

Evaluation

- Evaluate
 - Written and Verbal
 - Practical
- Target for Growth and Improvement



MOBILE CRANE TRAINING: **THE NEXT LEVEL**

- Multiple Crane Lifts
- Two-Hook Picks
- Assembly / Disassembly Director
- Lift Director
- Critical Lift Planning



RIGGING TRAINING: 5 ELEMENTS THAT SHOULD BE IN YOUR NEXT PROGRAM

1

Basics

- Rigging Gear by Type
- Capacities
- Hitch Configurations
- Limitations
- Protection
- E-Learning Delivery



RIGGING TRAINING: 5 ELEMENTS THAT SHOULD BE IN YOUR NEXT PROGRAM

2

Core Knowledge

- Rigging Inspection
- OSHA / ASME
- Load Weight
- Center-of-Gravity
- Load Distribution



RIGGING TRAINING: 5 ELEMENTS THAT SHOULD BE IN YOUR NEXT PROGRAM

3

Applications

- Problem Solving Workshops
- Sling Tension
- Rigging to the Hook
- Procedures / Methods



RIGGING TRAINING: 5 ELEMENTS THAT SHOULD BE IN YOUR NEXT PROGRAM

4

Practical

- Get Dirty
- Rig Loads and Use Info
- Implement Methods
- Perform with Knowledge



RIGGING TRAINING: 5 ELEMENTS THAT SHOULD BE IN YOUR NEXT PROGRAM

5

Evaluation

- Evaluate
 - Written or Verbal
 - Practical
- Find the Gaps
- Target Areas for Improvement



RIGGING TRAINING: THE NEXT LEVEL

- Jacking & Rolling
- Winches and Blocks
- Load Turning
- Load Drifting with Chain Hoists
- Complex Rigging
- Spreader Bars, BTHLD
- Lift Director / CLP



Q&A

