

TRAINING | FIELD SERVICES | CERTIFICATION | BOOKSTORE | E-LEARNING | WEBINARS | WORKSHOPS

Cranes - Rigging - Lift Planning - Inspection

Fundamentals of Rigging Engineering

New Program Announcement Available January 2015



Heavy crane, rigging, and lifting activities take place in a variety of industrial environments. Engineers come on the scene with backgrounds in mechanical, civil, structural or other branches of engineering. However, in most engineering programs, students learn little to nothing about crane and rigging activities. Most engineers who enter this field are then required to learn on-the-job.

Others who conduct lifting activities include a multitude of non-engineers who have graduated through the ranks to take on roles of lift planner, equipment superintendent, or master rigger. In general, these individuals have learned a great deal on-the-job but lack the formal education that the risky activities they are conducting call for.

This program was built to prepare key personnel with foundational knowledge in rigging engineering, exposing students to what they need to consider, and provide them with the resources to solve a challenge when it arises.

Required Courses

Introduction to Rigging Engineering	Basic Engineering PrinciplesBasic Rigging Principles	Intermediate Rigging PrinciplesAdvanced Rigging Principles	24 hrs.	Online	\$1,795
Cranes & Derricks	Introduction to Cranes & DerricksConfigurationsLoads & Forces	Stability Against OverturningCrane Use & PlanningCrane Applications	32 hrs.	Online	\$2,195
Rigging, Equipment & Applications	 Slings & Shackle Use Below-the-Hook Lifting Devices	Rigging ArrangementsLift Planning	32 hrs.	Online	\$2,195
Alternative Load Handling Equipment	Hydraulic & Strand JacksTelescopic Hydraulic Gantry Systems	Modular Lift Towers & Other Lifting SystemsHorizontal Load Moving Systems	24 hrs.	Online	\$1,795
Lift Planning	Introduction to Lift PlanningAnalyzing Risk	Executing Critical Lift PlansAnalysis of Accidents	16 hrs.	Online	\$995

Elective Courses*

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Specialized Transport	Road Transport Rail Transport	ater Transport	32 hrs.	Online	\$2,195
Standards & Regulations	Worldwide StandardsRegulations	dustry-Specific Regulations	12 hrs.	Online	\$995
Master Rigger	 Advanced Rigging Applications and Load Han Multi-crane lifts Load turning Load drifting Load drifting 50% Hands-On Learning Optional – CIC Qualified Rigger-Advanced Cerebase 	- Load Control - Rigging Design - Winching - Inclined planes and more.	32 hrs.	ITI Training Centers	\$495
Certified Rigging Gear Inspector Level I	 Removal criteria for wire rope, wire rope slings, synthetic slings, chain slings, rigging hardware, below-the-hook lifting devices Applicable OSHA, ASME, ASTM, AISI Regulations & Standards Hands-On Inspections & Certification Exams 		32 hrs.	ITI Training Centers	\$495
Mobile Crane Inspector	 Identify damage and wear on mobile crane components MESH components – Mechanical, Electrical, Structural, and Hydraulic Hands-on inspections and qualification exams 		40 hrs.	ITI Training Centers	\$495

^{* 2} Elective courses are required to complete the Program.



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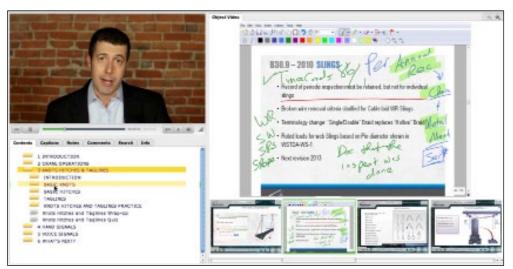
Instructors & Program Contributors

- J. Keith Anderson, Chief Rigging Engineer, Bechtel
- · David Duerr, PE, Owner, 2DM Associates
- Ron Kohner, PE, Owner, Landmark Engineering
- Jim Lory, Rigging Engineering Manager, Fluor Corp.
- Don Mahnke, PE, Owner, Hydra-Slide

- Larry Means, PE, Owner, Means Engineering
- Skip Ohman, PE, Advisor, The Crosby Group
- Jonathan Parnell, PE, Project Manager, ITI
- · Mike Parnell, President, ITI
- Larry Shapiro, PE, Partner, Shapiro & Associates
- Paul Sweeney, Manager of Lifting & Handling Equipment, General Dynamics Electric Boat
- Marco Van Daal, Owner, The Works International
- Jim Wiethorn, PE, Haag Engineering
- Jim Yates, PE, SVP of Engineering & Technical Services, Barnhart Crane & Rigging

Program Delivery Methods

- On-Demand E-Learning Students are able to complete the Program fully-online at their own speed lectures are
 recorded by industry subject matter experts and the learning modules include reading, discussion questions, assignments
 and exams.
- Virtual Instructor Led Training Students are able to enroll and learn alongside other students with live, virtual instruction.
- ITI Training Centers Three elective courses are offered at ITI Training Centers throughout North America for hands-on, practical learning opportunities.







Learn More & Enroll riggingengineering.com