



## Introduction to Cranes and Rigging

**Potential PDH:** 8

### Description:

This course provides a foundation of knowledge regarding cranes and basic rigging. Areas that are highlighted include the ten questions that must be answered before attempting any lift, how cranes work, interpreting a crane capacity chart, lift plan development, and a basic of rigging workshop.

### Outline:

- 10 questions that must be answered before attempting any lift – 1.5 hours
- How a crane works – 1 hour
- How to interpret a crane capacity chart with exercises – 1.5 hours
- Basic rigging workshop with exercises – 2 hours
- Lift plan development workshop with exercises – 2 hours

### Subject Matter Expert (SME):

**Joseph (Joe) Collins** is the Heavy Lift Division Manager for Becht. He is providing Consulting and Design Services for Lifting and Transport of process equipment, machinery, chemical, refining, and nuclear vessels and components. His duties include consulting to clients using the world's largest cranes and super heavy-lift projects.

Mr. Collins has over 45 years of experience in the heavy lift industry. He has served as Commissioner and later as Vice President for the National Commission for the Certification of Crane Operators (NCCCO). Joe also served as a member of the Cranes and Derrick Advisory Committee (C-DAC) to OSHA, which wrote and delivered the initial draft of the new OSHA Crane Safety Standard. In January 2011, Engineering News-Record magazine honored Joe as one of the "Top 25 Newsmakers" for his work with C-DAC.

Joe's long-term exposure to the industry in several key positions has made him a respected expert throughout the trade. He has applied his expertise to OSHA compliance audits, crane inspections, crane repairs, crane erection and dismantling, due diligence in crane purchases, transport or relocation of large cranes, sizing of cranes, and cost projections for bidding

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## Course Content



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purposes. The holistic exposure through the complete chain of lifting operations enables Joe to conduct crane accident investigations, wherein he manages accident sites, including the removal of wreckage and determine the root cause of the accident.