

# FUNDAMENTALS OF RIGGING FOR WIND ENERGY



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Before lifting or moving complex and heavy loads during wind energy installation or maintenance and essential first step is to ensure competent personnel are involved from planning the lift to final job completion. The Crosby “Fundamentals of Rigging for Wind Turbine Installation & Maintenance” course offers in depth discussions that address the standards and regulations pertaining to rigging equipment such as OSHA, ASME and API as well as Crosby recommendations that can assist wind energy personnel in their endeavors for safe material handling activities. The course will offer many interactive workshops and classroom exercises that are designed to enhance the learning experience and will expose the attendees to information that is not always found in most rigging courses or readily available in industry literature.

14 PDH hours can be earned

## The 16 hour (two day course) includes: *(not all inclusive)*

- Risk Management and The Basic Rigging Plan
- Basic rigging principles and pertain rigging standards
- Rigging Loads with multiple sling legs
- Proper application & inspection of rigging hardware and blocks
- Proper application & inspection of slings (Wire Rope, Chain and Synthetic)
- Calculating load weight and importance in locating the center of gravity
- Calculating sling tension
- Proper selection of rigging hardware and slings
- Heavy lift considerations when using shackles, hooks, link & lifting beams
- Team workshops and exercises



## Who should attend this course?

- Riggers
- Engineers
- Safety Personnel
- Crane Operators
- Trainers
- Lift Directors
- Rigging Supervisors
- Anyone involved in material handling activities in wind energy environments

## Some of the things you will learn from this course:

- Applicable rigging equipment standards & regulations that apply.
- Importance of knowing load weight and location of center of gravity and its effect on the rigging hardware and slings selected.
- Optimal methods and techniques to achieve load stability.
- Basic rigging principles per ASME (American Society of Mechanical Engineers).
- How to calculate sling tension and loading on rigging equipment when center of gravity is equal distance from the pick points and when the center of gravity is offset.
- How D/d can affect selection of the slings and rigging hardware.
- Different heavy lift concerns that may affect the selection of the rigging equipment.
- Proper application and inspection requirements for rigging hardware and slings.
- Various formulas that can be used for verifying weight, loading on the rigging components and calculating sling tension.