



Fulford

CERTIFICATION

60.50°

Advanced Rigging Content Overview

Complex Load Calculations

- Calculate complex load weights
- Calculate complex combined load Centre of Gravity

Sling Tension Review

- Sling tension calculations for symmetrically rigged loads
- Use of sling capacity charts

Non-Symmetrical Sling Tension Calculations

- Share of load calculations
- Off-centre sling tension calculations
- Off-centre and unequal height sling tension calculations

Below the Hook Devices

Inspection & correct use:

- Spreader bars
- Lifting beams
- Plate clamps

Rigging for Suspended Work Platforms

- Regulatory requirements
- Rigging procedures

Electrical Safety for Riggers

- Limits of Approach for exposed electrical equipment
- How electricity behaves if contacted and how to safely move away

Course Delivery

Duration: 8 hours (at your work site)

Maximum class size: 10 participants

Site requirements

- Meeting room for morning theory instruction
- Access to yard with lifting device and objects to be used as loads

Morning - Theory

- Presentation of theory components of the contact
- Participants work through example scenarios

Afternoon - Practical Training

- Application of the theory content on-site using available loads and lifting devices

LEVEL 2 - ADVANCED RIGGING

TRAINING ITINERARY

MORNING Theory Training

The morning session covers the theory portion of the Level 2 Advanced Rigging program. This section provides the participants with the knowledge required to understand and apply advanced rigging practices.

Theory content:

- Determining the weight of complex loads
- Determining the centre of gravity (COG) of complex loads
- Sling tension calculation review (symmetrical slings)
- Non-symmetrical sling tension calculations
- Under the hook device rigging (spreader bars, lifting beams and clamps)
- Suspended work platform rigging
- Rigging and electrical safety

AFTERNOON Hands-On Training

The hands-on training takes the theory covered in the morning session and puts it into practice with real loads and lifts. The hands-on training required to apply the advanced rigging knowledge on the job site.

Hand-on content:

- Calculate weight & COG of a complex load
- Create a lift plan for the load
- Rig the load , calculate the sling tensions & confirm the rigging is correctly sized
- Execute the lift per the lift plan
- Inspect a spreader bar / lifting beam
- Rig and lift a load with a spreader bar / lifting beam
- Inspect a plate clamp
- Rig and lift a load with a plate clamp

WHAT YOU RECEIVE

- Level 2 - Advanced Rigging Manual
- Lift Planning Guide
- Level 2 - Advanced Rigging Certificate of Completion wallet card
 - Valid for 3 years
 - Training must be repeated to renew



WHAT YOU NEED TO PROVIDE

- Boardroom or classroom space for the theory instruction
- Crane or hoisting device with an engineered lift point & capacity chart
- If the lifting equipment to be used requires a certified operator, one must be available for the hands-on session
- Three or more loads (ideally of different shapes and weights) on site. Minimum 300 pounds but no more than 50% crane capacity
- Rigging to be used must be in good condition and hoisting chains must have an up to date inspection tag