Fulford CERTIFICATION

Rigging Fundamentals Content Overview

Terminology

- Common rigging terminology

Rigging Calculations

- Calculate load weights
- Calculate Centre of Gravity
- Calculate sling tension
- Use rigging capacity charts

Rigging Inspection

Inspect rigging & apply rejection criteria:

- Wire rope, chain, nylon web & round slings
- Shackles, hooks & eye bolts

Rigging Hitches

Rig the following hitches:

- Single vertical hitch
- Single choker hitch
- Two legged basket hitch
- Two legged double wrapped basket hitch
- Two legged choker hitch
- Two legged double wrapped choker hitch

Hand & Radio Signals

- Common hand & radio communications

Basic Knots

- Tie clove hitch, bowline & sheet bend

Tag Lines

- Effective use of tag lines
- When hands can be placed on the load

Lift Planning

Lift planning with respect to:

- The load
- Rigging
- Site assessment
- Lift path
- Communications
- Qualifications and roles of personnel
- Conditions for Critical Lift

Lift

Safely and securely rig, signal and land a load:

- Correctly sized and inspected rigging
- Correct use of hitch
- Correct calculation of sling angle
- Determine centre of gravity
- Centre hook over load
- Correctly use tag line
- Correct hand signalling
- Secure load before unfixing
- Remove and store rigging

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LEVEL 1 - RIGGING FUNDAMENTALS TRAINING

UP TO 10 PARTICIPANTS PER DAY DAY RATE: $3650

ITINERARY

MORNING
Theory Training

The morning consists of the theory portion of the Level 1 Rigging Fundamentals program. This educational section will provide the student(s) with the basic skills and knowledge required to understand and apply the fundamentals of safe rigging practice.

Content covered within this block:

- Rigging terminology
- Hand & Radio Signals
- Determining load weight
- Determining load centre of gravity
- Knot tying
- Rigging inspection
- Slings and hitches
- Using rigging charts
- Sling tension calculation + WLL
- Estimating sling angles
- Correct use of tag lines
- Lift planning

AFTERNOON
Hands-on Training

The hands-on training is a continuation from the theory portion of the Level 1 Rigging Fundamentals program. This educational section will provide the student with the basic skills and knowledge required to understand and apply the fundamentals of safe rigging practice on site within a physical setting.

The participants will:

- Estimate the weight of actual loads and determine the centre of gravity for these same loads.
- Lift plans will be developed and the participants will select and inspect appropriately sized rigging and apply appropriate hitches that allow the loads to be lifted and moved safely.
- Participants will conduct site hazard assessments and use hand signals and tag lines to safely move the loads to target destinations.
- The Fulford Instructor will provide feedback throughout this process.

WHAT DO YOU GET?

- Rigging Fundamentals Manual
- Lift Guide
- Level 1 - Certificate of Completion Identification Card
  - Valid for 3 years
  - Training must be repeated to renew

WHAT DO YOU NEED TO PROVIDE?

- Boardroom or Classroom like space for the theory portion
- Crane or Hoisting Device with an engineered and certified lifting attachment, as well as lifting / capacity charts for the machine
- If the lifting equipment to be used requires a certified operator, one must be available for the hands-on portion of the day
- Three or more loads (ideally of different shapes and weights) on site. Minimum 300 lbs but no more than 50% of the crane's capacity
- Rigging to be used must be in good condition and hoisting chains must have an up to date annual inspection document tag

Rigging Training & Assessment Site Requirements

All of Fulford Certification's training programs are delivered on your worksite. The following site requirements are needed for us to deliver our courses.

Meeting Room

A meeting room with sufficient space for the course participants and the instructor is required for the delivery of the theory section of the course. A lunch room or similar space can be used but must be closed to staff not taking the training.

Work Area with Hoisting Device

The hands-on section of the training requires access to a work area (yard, warehouse, etc) and use of a hoisting device to rig and move loads. Hoisting devices can include cranes and other equipment with lifting attachments that meet WorkSafe BC requirements. The work area must be away from active operations on the site.

Objects for Lifting & Rigging

Three or more loads (ideally of different shapes and weights) on site. Minimum 300 lbs but no more than 50% of the crane's capacity. Rigging to be used must be in good condition and hoisting chains must have an up to date annual inspection document tag.