POWERED OVERHEAD TRAVELLING CRANE & SLINGING

COURSE CONTENT

AIM

The aim of the course is to give the delegate the necessary skills to perform slinging operations and the skills required to operate a powered overhead travelling crane safely.

Pre-Requisite

Knowledge of the environment in which the participant performs his/her duties.

Course Duration

The course will be of a duration agreed with the client, usually two days.

Maximum Number

The maximum number of persons on this course will be eight.

Training Aids

Use will be made of lecture notes, audio-visual presentation, demonstrations and practice.

Assessment

The learner will be assessed by means of a written test and a practical assessment.

Certification

On successful completion of this course, candidates will receive a NETA certificate.

Please Note: NETA certificates have an advised expiry of 3 years from date of issue

NB

Clients must make suitable lifting equipment and accessories available for the practical elements of onsite courses.

Additional Information

Meeting the needs and expectations of service users is of the highest priority to our staff. Therefore if you have any concerns or wish to make a comment about the service please contact: i**nfo@NETA.co.uk**

COURSE OBJECTIVES

Slinging

At the conclusion of this course the delegate will:

- Have a working knowledge of current legislation on lifting, including HSWA, LOLER & PUWER.
- Be capable of correctly and safely selecting the correct lifting equipment and lifting accessories including:
  - Chain slings
  - Wire rope slings
  - Synthetic slings
  - Shackles
- Eye bolts

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- Be able to calculate the weights and centres of gravity of loads, the effect of angles on safe working loads
- Have a working knowledge of all relevant current legislation relating to lifting and slinging and of general site and workshop safety standards.

Powered Crane Operation
- Explain the crane working parts
- Explain the directional travel of the crane
- Explain the different control systems
- Pre operational checks
- Planning the method and route of the load (2 day course only)
- Explain the use of the correct hand signals
- Explain the benefits of team working
- Consider the safety of others
- Explain safe loading procedures (weight, height, clearance, etc.)

COURSE SYLLABUS

Slinging Methodology
- The affect of angles on the safe working load
- The advantages of different slinging methods
- Classroom scenarios of slinging equipment
- Identification of bad practices
- Safety factors in lifting equipment
- Calculating weights and centres of gravity
- Accident prevention and precautions to be taken to prevent incidents

Communication
- Use of hand signals (BS7121)

Use of Chain Slings
- The types and grades of chains
- The use of a SWL chart
- Slinging with chain slings and shortening clutches
- Inspection of chains
- The best practice when slinging with chains

Use of Wire Rope Slings
- The construction of wire ropes
- The advantages of wire rope slings
- Inspection of wire rope

Synthetic Slings
- The types of slings in use and their applications
- The advantages of synthetic slings
- Identification methods of safe working loads
- Inspection of synthetic slings

Powered Overhead Travelling Crane Working Components
- Travelling overhead crane movement operations
- Operational pre-use checks on crane and working area including:
  - Limit switches
  - Control systems
  - Master control
  - Hooks
  - Block assembly
  - Sheaves
  - Wire rope

Safe Operating Practices of Overhead Travelling Crane
- Clearance levels
- Responsibility for loads
- Safety of others
- Control of swing
- Positioning of hook
- Parking of crane responsibilities

Assessment
- End of course written test paper
- Practical assessment in operation of crane
- Crane lift plan to be completed by delegate