

Offshore Pedestal Crane Inspection (Friction Type)

JTN Course Code – MH1004

AIM & OBJECTIVES

The aim of this module is to confirm delegates are competent to ensure the safety and reliability of pedestal crane hoisting and lifting equipment in compliance with statutory requirements.

This module incorporates API Spec 2C & RP - 2D 7th Edition Requirements.

COURSE CONTENT

Spec 2C

- Critical components
- API Spec 2C definitions.
- Crane rated loads.
- Crane ratings.
- Allowable stresses
- Design authentication & testing.
- Critical rigging components
- Boom hoist, load hoist and telescoping boom hoist specifications
- Swing mechanisms
- Power plant
- Operational function controls and systems
- Cabs & enclosures
- Miscellaneous requirements and equipment
- Welding of critically stressed components
- Non-destructive examination of critical components

COURSE CONTENT

(continuation)

RP-2D

- Mechanical & Non - Mechanical (General)
 - a. Load charts/information charts
 - b. Importance of following manufacturer's recommendations
 - c. Safety factors involved
 - d. Hoists
 - e. Structural aspects of offshore cranes
 - f. Critical structural components
 - g. Critical inspection areas
 - h. Various methods of non-destructive examinations of critical components
 - i. What records need to be reviewed and maintained
 - j. How to review completed repair records
 - k. Correct use of measuring & testing tools
 - l. Safety systems
 - m. Prime movers
 - n. Boom inspection & repairs
 - o. Emergency load lowering procedures

- Mechanical (Friction)
 - a. Mechanical terminology
 - b. Swing lock & brakes
 - c. Vertical & horizontal swing shaft & bevel gear boxes
 - d. Applicable hook roller assemblies
 - e. Upper & lower reduction gearboxes
 - f. Hoist planetary brakes and clutches
 - g. Clutch assemblies
 - h. Drum brakes
 - i. Boom hoist pawl
 - j. Boom hoist brake
 - k. Chain case & pump
 - l. Operational function controls & systems
 - m. Bearing, gear, shaft inspections
 - n. Emergency load lowering procedures

ASSESSMENT

On completion of the module the delegates will be subject to:

- A 40 question underpinning knowledge assessment. A pass mark of 80% is required.
- Practical assessments which include:
 - a. The proper usage of measuring and testing tools
 - b. Crane Safety Systems
 - c. Wire Rope
 - d. Prime Mover
 - e. Boom Inspection
 - f. Sheaves
 - g. Load & Pull Test Procedures
 - h. Emergency Load Lowering
 - i. Disassembly/Reassembly and Adjustment of Clutches
 - j. Boom Band Brake Adjustments
 - k. Control Lever Adjustments
 - l. Torque Converter Pressure Plate Adjustment

CERTIFICATION

Delegates successfully completing the Offshore Pedestal Crane Inspection (Friction Type) programme will be awarded an Offshore Pedestal Crane Inspection certificate for:

- Mechanical (Friction Type) Cranes

This certificate deems the inspector qualified to perform: initial, pre-use, monthly, quarterly and annual inspections, and is valid for four (4) years.

Where a delegate DOES NOT MEET the required assessment outcomes, no certificate will be awarded and the delegate must retake the Offshore Pedestal Crane Inspection (Friction Type) assessment.

WHO SHOULD ATTEND

Personnel who wish to inspect, test and report on the condition of offshore pedestal cranes.

PREREQUISITES

- Attendees will verify compliance with JTN Medical Screening Form
- For this course all delegates are required to provide their own protective clothing (ie) hardhat, safety boots, safety glasses & coveralls etc.

LOCATION

Training / Assessment will be conducted at delegate's normal offshore place of work or an alternative suitable training / assessment location.

DURATION

3.5 days (40% Theory, 60% Practical)

PARTICIPANTS

Minimum of 4, Maximum of 8

If this overview does not provide the information you require, please get in touch with us at contact@jtntechnicalservices.com

It is important to be as specific as possible about the information you would like, as this will help us to respond accurately and promptly. Where possible, please include a contact telephone number/ Skype screenname so we can contact you to discuss your request when necessary.

*Additional costings and changes in minimum & maximum participants may apply.

Disclaimer: Every effort has been made to ensure the accuracy of the information in this overview, which is believed to be correct at the time of publication.

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