PORTAL CRANE COURSE

PORTAL CRANE MECHANICAL MAINTENANCE

#838 3 DAYS

MAXIMUM CLASS SIZE: 10

GENERAL DESCRIPTION

This course provides standardized criteria to evaluate and correct structural, drive machinery and hoist problems on portal cranes. Participants also learn how to set up comprehensive preventive maintenance programs. A plant tour of a crane gearing and parts manufacturing plant is included.

COURSE OBJECTIVES

- Learn to isolate causes of abnormal tracking.
- Determine causes of abnormal component wear.
- Learn component replacement criteria.
- Learn replacement and adjustment procedures.
- Determine needed preventative maintenance items and intervals.

COURSE OUTLINE

Introduction – Safety,
- Shut down Conditions
- Service classifications & Type of Portal Cranes
- Major Crane Components

Crane Tracking
- Results of Improper Tracking
- Runway Tolerances

Runways and Wheels
- Runway Alignment
- Rail Systems & Rail Welding
- End Stops
- Wheel Features
- Trolley Wheel Tracking
- Wheel Removal & Shimming Wheels
- Equalizing & Truck Pins

Crane Structure
- Girders
- Fixed Leg
- Hinged Leg
- Gantries
- Gantry Equalizer Trucks
- Trolley
- Cab Supports
- Trolley Wheel Replacement & Alignment

Brakes
- Mechanical Load Brakes
- Electrical Load Brakes
- Holding Brakes

Gantry & Trolley Drives Systems
- Gear Boxes
- Gear Wear
- Bearings
- Couplings

Hoist Machinery
- Wire Ropes
- Drums
- Grapples
- Reeving

Preventative Maintenance
- Lubrication Charts
- Preventative Maintenance

SCHEDULE NOW

This course is offered on-site only. For more information or a quote, please call 866.821.4006.

KONECRANES
Training Institute