



Offshore Crane Operator Training Syllabus

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Version 1

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COURSE OVERVIEW

This course is designed to provide safe, effective and efficient operating skills necessary to safely operate pedestal cranes. Classroom training identifies all major components, review and discusses inspection, maintenance procedures, requirements and principals of operation. Training includes illustrations of proper reading and understanding of lifting capacities, load charts, identifying controlling load, rigging safety and proper communication during lifts. Special emphasis given to operational procedures, safety devices, anti- two blocking, lift planning and critical load handling are major training components. A score 80% or better on written testing and hands on practical is required to successfully complete crane operator competency training.

DESIGNED FOR

This course provides training, skills and knowledge necessary to begin functioning in the capacity of an offshore pedestal crane operator in accordance with the API RP 2D latest edition. Qualifying student to perform routine lifts, and serve in the capacity as a designated signal person (DSP) for other qualified crane operators and basic rigging. It does not qualify him/her to perform advanced rigging or to operate other lifting devices without additional specified training. It is designed to train and confirm crane operator competency and the level of proficiency.

PREREQUISITES

Participants must meet the API RP 2D medical physical requirements prior to training. Student will supply the necessary personal protection equipment such as gloves, a hard hat, safety glasses, and steel toe shoes or boots for hands on practical competency portion of training. 3 years or more Crane Operator experience before **A** operator status is considered.

OBJECTIVES

Participants should be able to safely operate pedestal cranes, perform daily pre-use inspections, read load charts, identify dynamic and static load, assess rigging safety, communicate with riggers, plan and lift heavy loads. Completion of this course qualifies Crane Operator Competency governed by Gulf Crane Services Pedestal Crane Operator qualification procedures in accordance with API RP 2D latest edition.

Course Outline Day 1- 8 hours
TYPES OF CRANES

Hydraulic	Electrical
Mechanical	Overhead Hoist

REGULATORY AUTHORITY

BOEMRE/BSS	USCG	API 2D
OSHA	API 2C	

CRANE COMPONENTS

Gantry	A-Frame Assembly	Brakes
Boom	Controls, Gauges	Spool, Wire Rope
Pumps	Blocks, Sheaves	Hooks, Safety Latches
Drives	Winch	

OPERATIONAL INDICATORS

Boom angle indicator	Load weight indicators
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LIMIT DEVICES

Anti-Two Block	Swing Brake	Low Angle Kick Out
High Boom Kick Out	Ratchet Pawl	

TERMINATIONS AND END FITTINGS

Dead End Pad-eye	Wedge Socket	Wire Rope Clips
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COMMUNICATIONS AND SIGNALING

Radio Etiquette	Basic Hand Signals
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Course Outline Day 2- 8 hours
WIRE ROPE

Mechanics	Main Hoist Wire Rope	Guidelines
Auxiliary Wire Rope	Pendant Lines	
Boom	Inspections	

LIFTING CAPACITIES

Boom Angle	Parts of Line	Boom / Drum Hoists
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Dynamic/Static Lifts

Load Chart Review

Load Control Methods

CRANE OPERATIONPre-Use Inspection
Operational ChecksProcedures
Load ChartsNormal /Emergency
- Shutdown Procedures**HANDS-ON PRACTICAL WITH PEDESTAL CRANE**Pre-Job Safety Assessment
Pre-Use Inspection
Start-Up Procedures
Use of ControlsUse of Communication
Tag Line Utilization
Lifting Small Boxes
Lifting Long LoadsNormal Shut Down
Emergency Procedures
Lifting Personnel Basket
Blind Lifts**FINAL EXAM**