



# **Offshore Crane Operator Training Syllabus**

12/17/14

Version 1

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**Course Registration Contact:** GCS Training Department

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### **COURSE OVERVIEW**

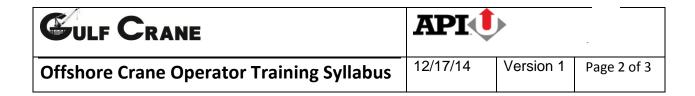
This course is designed to provide safe, effective and efficient operating skills necessary to safely operate pedestal cranes. Classroom training identifies all major components, review and discusses inspection, maintenance procedures, requirements and principals of operation. Training includes illustrations 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	Electrical	
Hydraulic		
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	
LIMIT DEVICES		
Anti-Two Block	Swing Brake	Low Angle Kick Out
High Boom Kick Out	Ratchet Pawl	
TERMINATIONS AND END FIT	TTINGS	
Dead End Pad-eye	Wedge Socket	Wire Rope Clips
COMMUNICATIONS AND SIG	NALING	
Radio Etiquette	Basic Hand Signals	
Course Outline Day 2- 8 hour	s	
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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GULF CRANE	<b>API</b>	<b>&gt;</b>	
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Dynamic/Static Lifts	Load Chart Review	Load Control Methods
CRANE OPERATION		
Pre-Use Inspection	Procedures	Normal /Emergency
Operational Checks	Load Charts	- Shutdown Procedures
HANDS-ON PRACTICAL WITH PI	EDESTAL CRANE	
Pre-Job Safety Assessment	Use of Communication	Normal Shut Down
Pre-Use Inspection	Tag Line Utilization	<b>Emergency Procedures</b>
Start-Up Procedures	Lifting Small Boxes	Lifting Personnel Basket
Use of Controls	Lifting Long Loads	Blind Lifts
FINAL EXAM		