

Objectives

Terminal Objective

This course is designed to provide the trainee with the basic knowledge and skills to recognize and identify unsafe conditions while using rigging hardware and equipment. It also serves as the prerequisite for LB-002 and LB-003 Rigging Trainer Development for Land-BASED OIL” class.

Enabling¹ Objectives

At the conclusion of this course the trainee should be able to:

1. Define rigging terms common to the energy production industry
2. Define the term “Risk Management”
3. Recognize the rigger’s responsibilities for inspection and connection of equipment to loads
4. Recognize manufacturer’s requirements for proper application of hooks and shackles
5. Recognize correct installation procedures for wire rope clips
6. Identify unsafe conditions in the use of load binders
7. Inspect rigging hardware and recognize unacceptable conditions
8. List and describe the three basic rigging hitches
9. Determine sling capacities from the charts provided
10. Inspect slings according to ASME B30.9 and recognize unacceptable conditions
11. Identify the six (6) areas of the “Basic Rigging Plan”
12. List the twelve (12) safe operating practices for slings identified in ASME B30.9
13. Explain the effect of hitch selection on load control
14. Estimate the weight of an unknown load
15. Explain the effect of COG location on sling loading
16. Calculate sling load using the sling angle and L/H methods
17. Identify the basic concepts associated with blocks used in cranes and rigging
18. Determine the number of “parts of line” in a block system
19. Estimate the line pull required to move a known load with a given block system
20. Inspect blocks and recognize unacceptable conditions
21. Recognize the requirements of API RP 54 for personnel lifting and auxiliary escape
22. Recognize the requirements of API RP 4G for guying drilling and servicing rigs
23. Explain the criteria for block selection in land-BASED OIL operations
24. Recognize the special inspection responsibilities imposed by API RP 8B
25. Recognize the “special precautions” required in the operation of winch and gin pole trucks
26. Calculate the loads on blocks and winches based on weight, line angle, and pole configuration
27. Identify unsafe conditions in the attachment and use of tail chains

End of Objective List

¹ Unless otherwise stated, conditions for objectives to be tested by written examinations are “from memory, either orally or in writing”. Unless otherwise stated, the standard for applicable objectives is implied to be “without error”.