



COURSE OUTLINE RIGGING & SLINGING

Introduction, Course Registration, Course Objectives and Course Content.

Module 1 - Legislation and Regulations

- OSHA:
- PUWER, PUWER, API RP 2D

Module 2 - Roles and Responsibilities

- Typical roles & Responsibilities & Accountabilities of a rigger
- Reporting Structure

Module 3 – Lifting Equipment Components

- Typical Cranes Components
- Lifting equipment
- Lifting appliance
- Lifting tackles
- Lifting equipment

Module 4 - Inspection and Rejection Criteria (105 mins)

- Wire rope and web sling
- Shackle
- Chain/ lever block
- Tirfor
- Eyebolt
- Snatch block

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Module 5 Rigging Principles

- Terminology
- sling chart
- webbing sling colour coding
- Hitches
- Load Angle Factor
- Sling Angle Factors
- Shackle side Loading Reduction factors
- D/d ratio
- Area and Circumference, volume and weight
- COG

Model 6 – Lift Execution:

- (PTW), (JHA), Risk Assessment, lift Plan.
- Toolbox Talk, 10 questions for safe lift.
- Personal Protective Equipment
- Pre-use Inspection(Validity and colour code,
- Pre- Slung
- Load Control and use tagline
- Rigging and de-rigging Procedures by industry best Practices
- Basic hand signals
- Overhead Traveling Crane and Monorail Operations
- Emergency Protocols, stop work policy.

Module 7- Hazards Associated with Lifting Operations

- Suspended load
- Failing objects / loose object
- Swing load
- Pinch point and body position
- Environmental Factors(wind, rain, wave heights etc)
- Dynamic Amplification in Lifting
- Equipment Malfunction /damage
- Incorrect Usage of lifting tackles
- Human Error
- Gross Overload condition
- Warning Alert

Model 8 Practical

- Pre-use / visual inspection
- Lift plan review
- Safe body position
- Rigging up Unbalance load-Load with offset COG
- Handling of Tubular / Scaffolding materials and offshore containers
- Hauling, cross hauling & transferring of load
- Rigging and De – rigging load from the lifting Equipment
- Control of swing load using of tagline
- Operation of overhead Traveling Crane and Monorail
- Sling protection, after use inspection, storage

The logo for ESTC Academy features a large, stylized circular emblem. The emblem is composed of several overlapping, curved shapes in shades of light blue, cyan, and green, creating a sense of motion and balance. Below the emblem, the text "ESTC ACADEMY" is displayed in a bold, sans-serif font. The "E" is green, while the remaining letters "STC ACADEMY" are light blue.

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