

Specialized Transport Planning & Engineering Consideration

Course #806 Specialized Transport Planning & Engineering Consideration

Specialized transportation methods involved in the lift planning process including road, rail, and water transport are introduced and analyzed. Engineering considerations and calculations for each method are discussed and evaluated. Course duration includes lectures, reading assignments, exercises and exams. This course is accredited by LEEA and approved by ASME for Continuing Education Units (CEUs) in compliance with the IACET Standard.

Lesson 1: Road Transport

Topics

Major Considerations; Hydraulic Platform Trailers; Engineering; Calculations; Other Equipment; Operational Considerations; Regulations; Permitting; Securement; Lashing Design

Objectives

- Evaluate the rationale for road transport.
- Identify the advantages and disadvantages of road transport.
- Explain the different characteristics of road transport equipment.
- Identify the regulations and requirements necessary for conducting a road transport operation.

Lesson 2: Rail Transport

Topics

Major Considerations; Equipment; Operational Considerations; Regulations; Permitting; Securement Design

Objectives

- Analyze the six areas of information necessary to perform a rail transport operation.
- Evaluate case studies for how a rail transport operation is executed.

Lesson 3: Water Transport

Topics

Engineering Considerations; Barges & Ships; Case Studies; Engineering; Calculations; Classification Societies & Regulations

Objectives

- Evaluate the physics principles that affect water transport.
- Explain the different characteristics of water transport vessels.
- Review and identify engineering considerations that must be made in various water transport case studies.
- Identify and calculate the forces, moments, center of gravity, and mass calculations necessary for evaluating the requirements of a water transport operation.
- Identify the regulations and requirements necessary for conducting a water transport operation.

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