

# ATPT-1640: RIGGING & HOISTING

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## Cuyahoga Community College

### Viewing: ATPT-1640 : Rigging & Hoisting

**Board of Trustees:**

2001-04-26

**Academic Term:**

Spring 2019

**Subject Code**

ATPT - Appld Indus Tech - Painting

**Course Number:**

1640

**Title:**

Rigging & Hoisting

**Catalog Description:**

Introduction to basic procedures of rigging and hoisting including rope materials, care, and handling; knot tying; slings; rigging hardware and hoisting techniques; hand signals; and safety procedures.

**Credit Hour(s):**

2

**Lecture Hour(s):**

2

## Requisites

**Prerequisite and Corequisite**

ATPT-1320 Safety Standards for Construction (OSHA-10), or departmental approval.

## Outcomes

**Course Outcome(s):**

N/A

**Objective(s):**

1. 1. Identify, handle, and store rigging and hoisting equipment.
2. 2. Interpret safety rules and precautions and perform safety inspections on rigging and hoisting equipment.
3. 3. Perform hoisting procedures related to the painting trade.
4. 4. Differentiate and perform basic knot, loop, and hitch tying.
5. 5. Identify and use standard hand signals.

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**Methods of Evaluation:**

1. Quizzes
2. Exams
3. Classroom participation
4. Demonstration of project assignments

**Course Content Outline:**

1. Construction ropes
  - a. Natural fiber ropes
  - b. Synthetic fiber ropes
    - i. nylon
    - ii. polyester
    - iii. polypropylene

- c. Care, handling, and inspection of fiber ropes
- d. Wire rope
  - i. care and handling
  - ii. safety inspection
- e. Safety factors
- 2. Knots
  - a. Terminology
  - b. Commonly used knots, hitches, and loops
- 3. Slings
  - a. Wire rope slings
  - b. Synthetic webbing slings
  - c. Sling angles
  - d. Sling hitches
    - i. single basket hitch
    - ii. double basket hitch
    - iii. bridle hitch
  - e. Sling storage
- 4. Rigging hardware
  - a. Hooks
  - b. Shackles
- 5. Rigging safety
- 6. Hoisting applications
  - a. Hoisting materials
  - b. Unloading onto an outside hoist
  - c. Dollies
  - d. Materials storage
- 7. Hand signals

## Resources

International Brotherhood of Painters and Allied Trades Joint Apprenticeship and Training Fund. "Rigging and Hoisting-The Basics"

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International Brotherhood of Painters and Allied Trades Joint Apprenticeship and Training Fund. "Rigging and Hoisting Application Hand Signals"

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International Brotherhood of Painters and Allied Trades Joint Apprenticeship and Training Fund. ""Rigging and Hoisting--The Basics""

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International Brotherhood of Painters and Allied Trades Joint Apprenticeship and Training Fund. ""Rigging and Hoisting Application Hand Signals""

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