

# ATMW-2350: FLOOR CONVEYOR

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## Cuyahoga Community College

**Viewing: ATMW-2350 : Floor Conveyor**

**Board of Trustees:**

2007-05-24

**Academic Term:**

Fall 2025

**Subject Code**

ATMW - Appld Ind Tech - Millwrighting

**Course Number:**

2350

**Title:**

Floor Conveyor

**Catalog Description:**

Study of floor conveyor systems used to transfer materials in assembly line operations and related manufacturing facilities. Topics include blueprint reading, layout procedures, component installation, proper use of an aerial lift, and OSHA safety requirements.

**Credit Hour(s):**

2

**Lecture Hour(s):**

2

## Requisites

**Prerequisite and Corequisite**

Acceptance to Millwrighting Technology apprenticeship program, and ATCT-1301 Introduction to Carpentry or concurrent enrollment; or departmental approval.

## Outcomes

**Course Outcome(s):**

Work safely, effectively, and efficiently with floor conveyor systems on a job site.

**Objective(s):**

1. Examine floor conveyor components and plan installation techniques.
2. Establish installation points using construction blueprints.
3. Install and evaluate floor conveyor.
4. Assess OSHA safety requirements needed in floor conveyor installation and aerial lift use and discuss how they are used in installation.
5. Demonstrate the ability to use an aerial lift by completing requirements of the ANSI A 92.6-1999 self-propelled platform and the ANSI A 92.5-1992 boom-supported platform programs.

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**Methods of Evaluation:**

1. Quizzes
2. Exams
3. Classroom participation
4. Demonstration of assigned projects

**Course Content Outline:**

1. Concepts
  - a. Transferring materials
  - b. Assembly line operations

- c. Manufacturing facilities
  - d. Floor conveyors
  - e. Floor conveyor type:belted
  - f. Floor conveyor type:roller
  - g. Floor conveyor type:induction belt
  - h. Floor conveyor component:transfer belt
  - i. Floor conveyor component:drive belt
  - j. Floor conveyor component:geared motor
  - k. Floor conveyor component:photosensor
  - l. Installing floor conveyors
  - m. Evaluating floor conveyors
  - n. Installation points
  - o. Construction blueprints
  - p. Blueprint reading:structural drawings
  - q. Blueprint reading:floor plans
  - r. Blueprint reading:sections and details
  - s. OSHA safety requirements
  - t. Aerial lifts
  - u. ANSI A 92.6-1999 self-propelled platform program
  - v. ANSI A 92.5-1992 boom-supported platform program
  - w. Layout procedures
  - x. Floor systems
  - y. Floor system installation component:columns
  - z. Floor system installation component:beams
  - aa. Floor system installation component:connection points
  - bb. Floor system installation component:stabilizers
  - cc. Floor system installation component:bracing
  - dd. Column installation
  - ee. Beam installation
  - ff. Connection point installation
  - gg. Stabilizer installation
  - hh. Bracing installation
2. .Skills
- a. Examining and applying knowledge of floor conveyor components
  - b. Examining and applying knowledge of plan installation techniques
  - c. Establishing installation points using construction blueprints
  - d. Installing and evaluating floor conveyor
  - e. Assessing and applying OSHA safety requirements in floor conveyor installations
  - f. Assessing and applying OSHA safety requirements in aerial lifts
  - g. Using an aerial lift by completing requirements of the ANSI A 92.6-1999 self-propelled platform program
  - h. Using an aerial lift by completing requirements of the ANSI A 92.5-1992 boom-supported platform program
  - i. Reading blueprints
  - j. Reading structural drawings
  - k. Reading floor plans
  - l. Installing floor systems
  - m. Installing columns
  - n. Installing beams
  - o. Installing connection points
  - p. Installing stabilizers
  - q. Installing bracing
3. Issues
- a. Safety
  - b. OSHA regulations
  - c. Professional demeanor to promote credibility of the trade
  - d. Communication skills to promote effective interpersonal skills

## Resources

Carpenters International Training Fund. *Introduction to Millwrighting*. Las Vegas, NV: Carpenters International Training Fund, 2011.

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Carpenters International Training Fund. *Conveyors, Monorails, and Racks*. Las Vegas, NV: Carpenters International Training Fund, 2013.

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## Resources Other

Carpenter's International Training Fund. <https://www.carpenters.org/citf-training/> . 2024.

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