ATMW-2350: FLOOR CONVEYOR

Cuyahoga Community College

Viewing: ATMW-2350 : Floor Conveyor

Board of Trustees:

2007-05-24

Academic Term:

Spring 2019

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 any Applied Industrial Technology 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. 1.   Examine floor conveyor components and plan installation techniques.
2. 2.   Establish installation points using construction blueprints.
3. 3.   Install and evaluate floor conveyor.
4. 4.   Assess OSHA safety requirements needed in floor conveyor installation and aerial lift use and discuss how they are used in installation.
5. 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.

Methods of Evaluation:

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

Course Content Outline:

A.Concepts

1.Transferring materials

2.Assembly line operations

3.Manufacturing facilities

4.Floor conveyors

5.Floor conveyor type:belted

6.Floor conveyor type:roller

7.Floor conveyor type:induction belt

8.Floor conveyor component:transfer belt

9.Floor conveyor component:drive belt

10.Floor conveyor component:geared motor

11.Floor conveyor component:photosensor

12.Installing floor conveyors

13.Evaluating floor conveyors

14.Installation points

15.Construction blueprints

16.Blueprint reading:structural drawings

17.Blueprint reading:floor plans

18.Blueprint reading:sections and details

19.OSHA safety requirements

20.Aerial lifts

21.ANSI A 92.6-1999 self-propelled platform program

22.ANSI A 92.5-1992 boom-supported platform program

23.Layout procedures

24.Floor systems

25.Floor system installation component:columns

26.Floor system installation component:beams

27.Floor system installation component:connection points

28.Floor system installation component:stabilizers

29.Floor system installation component:bracing

30.Column installation

31.Beam installation

32.Connection point installation

33.Stabilizer installation

34.Bracing installation

B.Skills

1.Examining and applying knowledge of floor conveyor components

2.Examining and applying knowledge of plan installation techniques

3.Establishing installation points using construction blueprints

4.Installing and evaluating floor conveyor

5.Assessing and applying OSHA safety requirements in floor conveyor installations

6.Assessing and applying OSHA safety requirements in aerial lifts

7.Using an aerial lift by completing requirements of the ANSI A 92.6-1999 self-propelled platform program

8.Using an aerial lift by completing requirements of the ANSI A 92.5-1992 boom-supported platform program

9.Reading blueprints

10.Reading structural drawings

11.Reading floor plans

12.Installing floor systems

13.Installing columns

14.Installing beams

15.Installing connection points

16.Installing stabilizers

17.Installing bracing

C.Issues

1.Safety

2.OSHA regulations

3.Professional demeanor to promote credibility of the trade

4.Communication skills to promote effective interpersonal skills

Resources

Basaraba, Bruce. *Industry Trades Training Manual.* Alberta: IPT Publishing, 1998.

United Brotherhood of Carpenters. *Introduction to Millwrighting.* Washington: United Brotherhood of Carpenters, 1976.

United Brotherhood of Carpenters. *USPS Bulk Mail Center Qualification Program.* Washington: United Brotherhood of Carpenters, 2001.

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