

# Washtenaw Community College Comprehensive Report

## IWT 212 Conveyor Installation and Industrial Maintenance Conditional Approval Effective Term: Fall 2011

### Course Cover

**Division:** Vocational Technologies  
**Department:** United Association Department  
**Discipline:** Ironworker Instructor Training  
**Course Number:** 212  
**Org Number:** 28700  
**Full Course Title:** Conveyor Installation and Industrial Maintenance  
**Transcript Title:** Conveyor Installation  
**Is Consultation with other department(s) required:** No  
**Publish in the Following:** College Catalog , Web Page  
**Reason for Submission:** New Course  
**Change Information:**  
**Rationale:** This course is part of the Ironworker ITP.  
**Proposed Start Semester:** Fall 2011  
**Course Description:**

This course will provide the participant with an overview of the installation of and the theory behind various types of conveyor equipment used in the manufacturing sector. It will also cover the theory and practice behind industrial maintenance techniques on various mechanical installations in this sector. Limited to Ironworker Instructor Training program participants.

### Course Credit Hours

**Variable hours:** No  
**Credits:** 1.5  
**The following Lecture Hour fields are not divisible by 15: Student Min ,Instructor Min**  
**Lecture Hours: Instructor: 22.5 Student: 22.5**  
**Lab: Instructor: 0 Student: 0**  
**Clinical: Instructor: 0 Student: 0**  
  
**Total Contact Hours: Instructor: 22.5 Student: 22.5**  
**Repeatable for Credit:** NO  
**Grading Methods:** Letter Grades  
Audit  
**Are lectures, labs, or clinicals offered as separate sections?:** NO (same sections)

### College-Level Reading and Writing

College-level Reading & Writing

### College-Level Math

#### Requisites

#### General Education

##### **Degree Attributes**

Below College Level Pre-Reqs

### Request Course Transfer

## Proposed For:

### Student Learning Outcomes

1. Set up and demonstrate conveyor installation and maintenance.

#### **Assessment 1**

**Assessment Tool:** Survey of Ironworker training coordinators/supervisors.

**Assessment Date:** Fall 2012

**Assessment Cycle:** Every Two Years

**Course section(s)/other population:** All

**Number students to be assessed:** Random sampling of 50% of all students teaching related topics the subsequent year.

**How the assessment will be scored:** The student's training activities at the home local will be scored and evaluated on a survey questionnaire covering the learning outcomes.

**Standard of success to be used for this assessment:** Based on the number of students who teach the related material in the subsequent year, 75% will score an average of satisfactory or better.

**Who will score and analyze the data:** The UA Program Administrator will coordinate the collection of data with the Ironworker Training Department and will discuss the results with the Ironworker Training Department and IWT faculty.

2. Deliver safety and other conveyor related lecture material.

#### **Assessment 1**

**Assessment Tool:** Survey of Ironworker training coordinators/supervisors.

**Assessment Date:** Fall 2012

**Assessment Cycle:** Every Two Years

**Course section(s)/other population:** All

**Number students to be assessed:** Random sampling of 50% of all students teaching related topics the subsequent year.

**How the assessment will be scored:** The student's training activities at the home local will be scored and evaluated on a survey questionnaire covering the learning outcomes.

**Standard of success to be used for this assessment:** Based on the number of students who teach the related material in the subsequent year, 75% of them will score an average of satisfactory or better.

**Who will score and analyze the data:** The UA Program Administrator will coordinate the collection of data with the Ironworker Training Department and will discuss the results with the Ironworker Training Department and IWT faculty.

3. Effectively use the Ironworker and vendor training materials.

#### **Assessment 1**

**Assessment Tool:** Survey of Ironworker training coordinators/supervisors.

**Assessment Date:** Fall 2012

**Assessment Cycle:** Every Two Years

**Course section(s)/other population:** All

**Number students to be assessed:** Random sampling of 50% of all students teaching related topics the subsequent year.

**How the assessment will be scored:** The student's training activities at the home local will be scored and evaluated on a survey questionnaire covering the learning outcomes.

**Standard of success to be used for this assessment:** Based on the number of students who teach the related material in the subsequent year, 75% will score an average of satisfactory or better.

**Who will score and analyze the data:** The UA Program Administrator will coordinate the collection of data with the Ironworker Training Department and will discuss the results with the Ironworker Training Department and IWT faculty.

## Course Objectives

1. Demonstrate the installation of industrial conveyor equipment

**Methods of Evaluation**  
**Matched Outcomes**

2. Demonstrate the maintenance of conveyor equipment

**Methods of Evaluation**  
**Matched Outcomes**

3. Explain safety precautions and regulations that apply to conveyor installation and maintenance

**Methods of Evaluation**  
**Matched Outcomes**

4. Describe the theory of different types of conveyors and the selection of them for various jobs

**Methods of Evaluation**  
**Matched Outcomes**

5. Explain the step-by-step procedures used in conveyor installation and maintenance

**Methods of Evaluation**  
**Matched Outcomes**

6. Reference Ironworker and vendor supplied manuals during lectures and demonstrations

**Methods of Evaluation**  
**Matched Outcomes**

7. Apply Ironworker and vendor training material guidelines and concepts

**Methods of Evaluation**  
**Matched Outcomes**

## New Resources for Course

All required materials will be provided by the Ironworker Training Department.

## Course Textbooks/Resources

Textbooks  
Manuals  
Periodicals  
Software

## Equipment/Facilities

Level III classroom

<b><u>Reviewer</u></b>	<b><u>Action</u></b>	<b><u>Date</u></b>
<b>Faculty Preparer:</b>	<i>Faculty Preparer</i>	<i>May 05, 2011</i>
<b>Department Chair/Area Director:</b> <i>Daniel Welch</i>	<i>Recommend Approval</i>	<i>May 05, 2011</i>
<b>Dean:</b> <i>Daniel Welch</i>	<i>Request Conditional Approval</i>	<i>May 05, 2011</i>
<b>Vice President for Instruction:</b> <i>Stuart Blacklaw</i>	<i>Conditional Approval</i>	<i>May 06, 2011</i>