

Washtenaw Community College Comprehensive Report

UAT 315 Estimating for Mechanical Projects (UA 2017) Effective Term: Fall 2020

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 315

Org Number: 28200

Full Course Title: Estimating for Mechanical Projects (UA 2017)

Transcript Title: Estimating for Mechanical 2017

Is Consultation with other department(s) required: No

Publish in the Following:

Reason for Submission: New Course

Change Information:

Rationale: New United Association course

Proposed Start Semester: Fall 2020

Course Description: In this course, students will develop skills to transition from a construction field supervisor to an office estimator. Utilizing field experience and current technology, students will identify and recognize take-off skills, labor assignments and strategies for the bidding process. In addition, students will review pre-bid assessment skills, turn over responsibility and the soft skills needed for the office environment. Limited to United Association Instructor Training program graduates.

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

The following Lab fields are not divisible by 15: Student Min, Instructor Min

Lab: Instructor: 1.5 Student: 1.5

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 24 Student: 24

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. Describe the estimating process needed to do take-off, cost estimates, and bidding of various types of mechanical projects.

Assessment 1

Assessment Tool: Outcome-related quiz

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 80% of the students will score 80% or higher.

Who will score and analyze the data: U.A. instructors

2. Demonstrate the soft skills and communication skills essential for transitioning from the jobsite to the office environment.

Assessment 1

Assessment Tool: Presentation

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Observational checklist

Standard of success to be used for this assessment: 80% of the students will score 80% or higher.

Who will score and analyze the data: U.A. instructors

3. Identify and demonstrate all phases of the bidding process.

Assessment 1

Assessment Tool: Presentation

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Observational checklist

Standard of success to be used for this assessment: 80% of the students will score 80% or higher.

Who will score and analyze the data: U.A. instructors

Course Objectives

1. Identify tools and technology needed for estimating material take-off of job-related blueprints.
2. Demonstrate and complete a take-off of pre-determined project blueprints.
3. Interpret specifications, blueprints and documentation needed for estimating.
4. Identify and practice the soft skills and communication skills needed for an office environment.
5. Compare and contrast the communication skills and responsibilities required for jobsite and front office vocations.
6. Demonstrate and role play soft skills for an office environment.
7. Identify phases of the bidding process.
8. Discuss the responsibilities of the estimator in the bidding process.
9. Evaluate the role of the estimator in all phases of the bidding process using case study analysis.

New Resources for Course**Course Textbooks/Resources**

Textbooks
 Manuals
 Periodicals
 Software

Equipment/Facilities

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Tony Esposito</i>	<i>Faculty Preparer</i>	<i>Jul 01, 2020</i>
Department Chair/Area Director: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Jul 08, 2020</i>
Dean: <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>Aug 07, 2020</i>
Curriculum Committee Chair: <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Oct 26, 2020</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Oct 27, 2020</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Oct 27, 2020</i>