

Washtenaw Community College Comprehensive Report

UAT 195 iPad Deployment for Construction Technology Training (UA 3054) Effective Term: Spring/Summer 2024

Course Cover

College: Advanced Technologies and Public Service Careers

Division: Advanced Technologies and Public Service Careers

Department: United Association Department (UAT Only)

Discipline: United Association Training

Course Number: 195

Org Number: 28200

Full Course Title: iPad Deployment for Construction Technology Training (UA 3054)

Transcript Title: iPad Deployment-Const Tech 3054

Is Consultation with other department(s) required: No

Publish in the Following:

Reason for Submission: New Course

Change Information:

Rationale: New U.A. Instructors course

Proposed Start Semester: Fall 2024

Course Description: In this course, students will identify and demonstrate iPad or other mobile technology that can be incorporated into their current training curriculum. Through interactive delivery, students will review the fundamentals of Mobile Data Management (MDM) software for managing the mobile platform in order to facilitate training. Students will be introduced to the Autodesk Construction Cloud (ACC) build application and gain hands-on experience viewing project models, drawings, and documents on a mobile device. Participants will create a lesson plan outlining the steps they can use to implement this technology into their existing curriculum. Limited to United Association 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

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

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Recognize the fundamentals, requirements, and parameters of MDM software when using iPads or other mobile technologies for training.

Assessment 1

Assessment Tool: Outcome-related quiz questions

Assessment Date: Fall 2024

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. Operate the Autodesk Construction Cloud Build application in accordance with the manufacturer's specifications.

Assessment 1

Assessment Tool: Outcome-related demonstration

Assessment Date: Fall 2024

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: 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. Develop a lesson plan for implementing iPads or other mobile technologies into current training for local Training Centers.

Assessment 1

Assessment Tool: Outcome-related worksheet - lesson plan

Assessment Date: Fall 2024

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

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. Select from the different types of iPad/mobile technologies and classroom storage options available for Training Centers.
2. Explain the procedures for the enrollment of devices into MDM software.
3. Identify the features and functionality of MDM software.
4. Create a class on a mobile platform and use the control feature of the devices for the students enrolled.
5. Create job site mark-ups, request for information (RFI's), and submittals on computer spreadsheets.

6. Review published drawings for a job site.
7. Demonstrate navigation of a predetermined project model.
8. Discuss the challenges instructors face when implementing new technology.
9. Identify current training where mobile technologies could be implemented.
10. List the steps for implementing mobile technologies into current training.
11. Create a lesson plan that can be used at the student's local Training Center.

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>Apr 26, 2024</i>
Department Chair/Area Director: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Apr 30, 2024</i>
Dean: <i>Eva Samulski</i>	<i>Recommend Approval</i>	<i>May 07, 2024</i>
Curriculum Committee Chair: <i>Randy Van Wagnen</i>	<i>Recommend Approval</i>	<i>Jul 30, 2024</i>
Assessment Committee Chair: <i>Jessica Hale</i>	<i>Recommend Approval</i>	<i>Jul 30, 2024</i>
Vice President for Instruction: <i>Brandon Tucker</i>	<i>Approve</i>	<i>Jul 31, 2024</i>