Washtenaw Community College Comprehensive Report

CON 149 Commercial Building Maintenance IV
Effective Term: Winter 2012

Course Cover

Division: Vocational Technologies
Department: Construction Institute
Discipline: Residential Construction Technology
Course Number: 149
Org Number: 14725
Full Course Title: Commercial Building Maintenance IV
Transcript Title: Commercial Building Maint. IV
Is Consultation with other department(s) required: No
Publish in the Following:
Reason for Submission:
Change Information:
Rationale: Course Conditionally Approved; seeking full approval.
Proposed Start Semester: Winter 2012
Course Description:

Students will be introduced to University of Michigan sustainable technology, telecommunication, pumps and filter systems and vocational lab specific equipment. Students will become familiar with the mechanical, electrical, computer and other components of the systems and equipment. Following manufacturer specifications and recommendations, students will diagnose and perform minor repairs on this equipment. Standard procedures and safety will be emphasized.

Course Credit Hours

Variable hours: No
Credits: 3
Lecture Hours: Instructor: 30 **Student:** 30
Lab: Instructor: 15 **Student:** 15
Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 45 **Student:** 45
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

Enrollment Restrictions
Must be U of M contracted facility department to enroll

General Education

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Inspect, diagnose and repair sustainable technology systems.
   Assessment 1
   Assessment Tool: Exam and lab exercises
   Assessment Date: Fall 2014
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All
   Number students to be assessed: All
   How the assessment will be scored: Exam and lab exercises will be scored using an answer key and a departmentally-developed rubric.
   Standard of success to be used for this assessment: 85% of the students will score 80% or higher on the exam and lab exercises.
   Who will score and analyze the data: Departmental faculty

2. Inspect, diagnose and repair various telecommunication systems.
   Assessment 1
   Assessment Tool: Exam and lab exercises
   Assessment Date: Fall 2014
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All
   Number students to be assessed: All
   How the assessment will be scored: Exam and lab exercises will be scored using an answer key and a departmentally-developed rubric.
   Standard of success to be used for this assessment: 85% of the students will score 80% or higher on the exam and lab exercises.
   Who will score and analyze the data: Departmental faculty

3. Inspect, diagnose and repair various pumps and filter systems.
   Assessment 1
   Assessment Tool: Exam and lab exercises
   Assessment Date: Fall 2014
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All
   Number students to be assessed: All
   How the assessment will be scored: Exam and lab exercises will be scored using an answer key and a departmentally-developed rubric.
   Standard of success to be used for this assessment: 85% of the students will score 80% or higher on the exam and lab exercises.
   Who will score and analyze the data: Departmental faculty

4. Inspect, diagnose and repair various lab specific equipment.
   Assessment 1
   Assessment Tool: Exam and lab exercises
   Assessment Date: Fall 2014
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All
   Number students to be assessed: All
   How the assessment will be scored: Exam and lab exercises will be scored using an answer key and a departmentally-developed rubric.
   Standard of success to be used for this assessment: 85% of the students will score 80% or higher on the exam and lab exercises.
   Who will score and analyze the data: Departmental faculty

Course Objectives

1. Recognize various components of sustainable systems.

   Methods of Evaluation
   Matched Outcomes

2. Determine proper operation of various sustainable systems.

   Methods of Evaluation
   Matched Outcomes

3. Troubleshoot sustainable system operation using manufacturer's recommended inspection sequencing.

   Methods of Evaluation
   Matched Outcomes

4. Perform sustainable system repair within specified manufacturer's parameters.

   Methods of Evaluation
   Matched Outcomes

5. Perform final manufacturer's inspection on sustainable systems to ensure proper operation.

   Methods of Evaluation
   Matched Outcomes

6. Recognize various components of telecommunication systems.

   Methods of Evaluation
   Matched Outcomes

7. Determine proper operation of telecommunication systems.

   Methods of Evaluation
   Matched Outcomes

8. Troubleshoot telecommunication system operation using manufacturer's recommended inspection sequencing.

   Methods of Evaluation
   Matched Outcomes

9. Perform recommended telecommunication system repair within specified manufacturer's parameters.

   Methods of Evaluation
   Matched Outcomes

10. Perform final manufacturer's inspection on telecommunication systems to ensure proper

operation.

Methods of Evaluation
Matched Outcomes

11. Recognize various components of water pumps and filter systems.

    Methods of Evaluation
    Matched Outcomes

12. Determine proper operation of various water pumps and filter systems.

    Methods of Evaluation
    Matched Outcomes

13. Troubleshoot various water pumps and filter systems using recommended manufacturer's inspection sequencing.

    Methods of Evaluation
    Matched Outcomes

14. Perform water pump and filter repairs using specified manufacturer's parameters.

    Methods of Evaluation
    Matched Outcomes

15. Perform final manufacturer's inspection on water pumps and filter systems to ensure proper operation.

    Methods of Evaluation
    Matched Outcomes

16. Recognize various components of lab specific equipment.

    Methods of Evaluation
    Matched Outcomes

17. Determine proper operation of lab specific equipment.

    Methods of Evaluation
    Matched Outcomes

18. Troubleshoot lab specific equipment using manufacturer's recommended inspection sequencing.

    Methods of Evaluation
    Matched Outcomes

19. Perform lab equipment repair within specified manufacturer's parameters.

Methods of Evaluation
Matched Outcomes

20. Perform final manufacturer's inspection on lab specific equipment to ensure proper operation.

Methods of Evaluation
Matched Outcomes

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

Off-Campus Sites

Reviewer	Action	Date
Faculty Preparer:	*Faculty Preparer*	*Aug 04, 2011*
Department Chair/Area Director: *Cristy Lindemann*	*Recommend Approval*	*Aug 04, 2011*
Dean: *Ross Gordon*	*Recommend Approval*	*Aug 04, 2011*
Vice President for Instruction: *Stuart Blacklaw*	*Approve*	*Aug 25, 2011*