

Washtenaw Community College Comprehensive Report

UAT 296 UA STAR HVACR Review Effective Term: Spring/Summer 2014

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 296

Org Number: 28200

Full Course Title: UA STAR HVACR Review

Transcript Title: UA STAR HVACR Review

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Web Page

Reason for Submission: Three Year Review / Assessment Report

Change Information:

Credit hours

Total Contact Hours

Outcomes/Assessment

Objectives/Evaluation

Rationale: Course update

Proposed Start Semester: Spring/Summer 2014

Course Description: In this course, students will learn about methods of teaching how to conduct a review for the HVAC & R UA STAR Plumbing certification exam. All of the categories covered by the exam will be reviewed. Students will use the UA Interactive On-Line Curriculum to download the HVAC & R UA STAR review materials. Web-based STAR review classes will also be discussed. The final 4 hours of the class will be an actual NITC proctored HVAC & R UA STAR Plumbing exam. Limited to United Association program participants.

Course Credit Hours

Variable hours: No

Credits: 1

Lecture Hours: Instructor: 15 Student: 15

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

Lab: Instructor: 5 Student: 5

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 20 Student: 20

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. Demonstrate methods of teaching the central concepts of the UA HVAC STAR exam.

Assessment 1

Assessment Tool: Presentation

Assessment Date: Spring/Summer 2014

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: 75% of students will achieve 75% or above.

Who will score and analyze the data: Departmental faculty

2. Take the United Association STAR HVAC exam.

Assessment 1

Assessment Tool: NITC proctored exam

Assessment Date: Spring/Summer 2014

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 students will satisfactorily pass the examination.

Who will score and analyze the data: Departmental faculty

Course Objectives

1. Identify various mechanical and electrical principles, such as motor and shaft alignment, bearing temperatures, and circuit analysis.

Matched Outcomes

2. Identify different aspects and components of refrigeration.

Matched Outcomes

3. Present information relevant to the HVAC exam.

Matched Outcomes

4. Identify areas of difficulty on the exam and teaching practicum for those areas.

Matched Outcomes

5. Demonstrate how to calculate system electrical analysis problems and BTU loads using required formulas.

Matched Outcomes

6. Identify and select material to teach various areas of the HVACR STAR exam.

Matched Outcomes

7. Access course materials on BlackBoard.

Matched Outcomes

8. Complete an HVAC STAR pretest.

Matched Outcomes

9. Explain various mechanical principles relevant to the HVAC STAR exam.

Matched Outcomes

10. Troubleshoot circuit analysis problems.

Matched Outcomes

11. Demonstrate how to calculate BTU problems.

Matched Outcomes

12. Explain enthalpy diagrams.

Matched Outcomes

13. Successfully complete the UA HVAC STAR exam.

Matched Outcomes

New Resources for Course

Course Textbooks/Resources

Textbooks

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

Reviewer

Action

Date

Faculty Preparer:

Amanda Scheffler

Faculty Preparer

Feb 02, 2014

Department Chair/Area Director:

Scott Klapper

Recommend Approval

Feb 03, 2014

Dean:

Marilyn Donham

Recommend Approval

Feb 05, 2014

Vice President for Instruction:

Bill Abernethy

Approve

Apr 21, 2014