UAT 231 UA Green Awareness Certification Effective Term: Spring/Summer 2014

Course Cover

Division: Advanced Technologies and Public Service Careers **Department:** United Association Department **Discipline:** United Association Training Course Number: 231 **Org Number:** 28200 Full Course Title: UA Green Awareness Certification Transcript Title: UA Green Awareness Certificati 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 receive instruction in "Green" awareness

that emphasizes concepts and principles related to the specification, purchase and application of energy-efficient products. Upon successful completion of this course and a certification exam, students will receive a certification that attests to their knowledge of the emerging trends, terminologies, systems and products that are considered green. Limited to United Association program participants.

Course Credit Hours

Variable hours: No Credits: 1 Lecture Hours: Instructor: 15 Student: 15 Lab: Instructor: 0 Student: 0 Clinical: Instructor: 0 Student: 0 Other: Instructor: 5 Student: 5

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

<u>College-Level Math</u> <u>Requisites</u> <u>General Education</u> <u>Degree Attributes</u> Below College Level Pre-Reqs

Request Course Transfer

Proposed For:

Student Learning Outcomes

- 1. Recognize and apply the central concepts of green awareness.
 - 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: Skill checklist with rubric Standard of success to be used for this assessment: 75% of students will score 75% or above. Who will score and analyze the data: Departmental faculty

2. Identify energy efficient mechanical systems used in high performance buildings.

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 score 75% or above.

Who will score and analyze the data: Departmental faculty

3. Describe water conserving systems in high performance buildings.

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 score 75% or above.

Who will score and analyze the data: Departmental faculty

Course Objectives

- 1. Recognize terms related to the specification, purchase, and application of energy efficient products such as biodegradable and thermal mass.
 - Matched Outcomes
- 2. Recognize the concerns about the increasing amount of carbon pollution. Matched Outcomes
- 3. Demonstrate appropriate use and knowledge of course materials. Matched Outcomes
- 4. Identify heat transfer in mechanical systems. Matched Outcomes
- 5. Analyze movement of heat through building structures.
- Matched Outcomes
- 6. Categorize mechanical system components. Matched Outcomes
- 7. Assess new energy efficient technologies.

Matched Outcomes 8. Identify green water usage systems in buildings. Matched Outcomes 9. Identify potable and non-potable systems. Matched Outcomes 10. Design hybrid systems for maximum water conservation. Matched Outcomes 11. Identify revenue streams to fund high performance projects. Matched Outcomes 12. Recognize federal and state legislation for high performance buildings. Matched Outcomes 13. Interpret grant funding options for potential customers. Matched Outcomes 14. Identify building rating systems. Matched Outcomes 15. Compare manufacturer energy ratings. Matched Outcomes 16. Distinguish between the roles of federal, state and local agencies involved in high performance buildings. Matched Outcomes New Resources for Course Course Textbooks/Resources Textbooks Manuals

Esco Institute. <u>Green Mechanical Systems Training Manual</u>, Chiller Trader, 05-08-2008 Periodicals

Software

Equipment/Facilities

Level I classroom

<u>Reviewer</u>	Action	<u>Date</u>
Faculty Preparer:		
Amanda Scheffler	Faculty Preparer	Jun 27, 2013
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	Mar 31, 2014
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