

Washtenaw Community College Comprehensive Report

UAT 363 Medical Gas Inspector (UA 4013)

Effective Term: Spring/Summer 2023

Course Cover

College: Advanced Technologies and Public Service Careers

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 363

Org Number: 28200

Full Course Title: Medical Gas Inspector (UA 4013)

Transcript Title: Medical Gas Inspector UA 4013

Is Consultation with other department(s) required: No

Publish in the Following:

Reason for Submission: New Course

Change Information:

Course description

Rationale: New United Association course

Proposed Start Semester: Winter 2023

Course Description: In this course, students will identify the requirements for installer qualification of medical gas and medical/surgical vacuum piping system installation and testing, in accordance with the National Fire Protection Association (NFPA) 2021 codes and American Society of Sanitary Engineers (ASSE) Series 6000 standards. Students will also recognize requirements for brazer qualification for medical gas equipment in accordance with ASME Section IX. Using United Association (UA) instructional resources, students will present a lesson plan for medical gas training for use at their local Training Centers. In addition, students will be given the opportunity to complete the National Inspection Testing and Certification Corporation (NITC) ASSE 6020 certification exam for inspector certification. Limited to United Association Instructor Training program graduates.

Course Credit Hours

Variable hours: No

Credits: 3

Lecture Hours: Instructor: 45 **Student:** 45

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

Lab: Instructor: 3 **Student:** 3

Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 48 **Student:** 48

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. Identify the requirements of the National Fire Protection Association (NFPA) 99 Code Health Care Facilities Code as it relates to medical gases.

Assessment 1

Assessment Tool: Outcome-related written quiz questions

Assessment Date: Spring/Summer 2023

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. Identify the requirements for the National Inspection and Testing Certification (NITC) and the American Society of Sanitary Engineering (ASSE) 6020 Medical Gas Instructor certification exam.

Assessment 1

Assessment Tool: Outcome-related exam questions

Assessment Date: Spring/Summer 2023

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

3. Identify the materials, equipment, and sequence of constructing a medical gas system in accordance with NITC and ASSE codes.

Assessment 1

Assessment Tool: Outcome-related quiz questions

Assessment Date: Spring/Summer 2023

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

4. Present a 10-minute lesson plan for peer review, using United Association instructional resources.

Assessment 1

Assessment Tool: Presentation

Assessment Date: Spring/Summer 2023

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: 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. Identify the NFPA 99 Health Care Code as it relates to medical facility safety.
2. Describe the potential risks in health care facilities including fire, explosion, and electricity.
3. Explain the criteria for levels of health care services / systems based on risks to patients, staff, and visitors.
4. Describe the administrative responsibilities of a medical gas inspector.
5. Explain the installation of medical gas and vacuum systems identified by ASSE 6000 Series code and requirements.
6. Define medical gas terminology associated with the NITC ASSE 6020 exam.
7. Determine equipment locations of medical equipment as per the needs of medical facilities in accordance with ASSE 6000 series.
8. Explain the implementation, procedures, and requirements of installing medical gas piping.
9. Review and demonstrate performance-testing procedures for medical gas installations.
10. Explain the inspection procedures involved in the testing and operating of medical gas systems.
11. Access the instructional resources including the UA Online Learning Resources (OLR) and Blackboard Learning Management System (LMS).
12. Create an instructional activity for classroom use that can be used at local training centers.
13. Present a 10-minute lesson plan for peer review.
14. Develop skills to prepare for the NITC ASSE 6020 Medical Gas Inspector certification exam.

New Resources for Course

Course Textbooks/Resources

Textbooks

ASSE/IAMO. *ASSE 6000 Professional Qualifications Standard* , 2018 ed. ASSE/IAPMO , 2018, ISBN: 55111505.

Natioal Fire Protection Association . *NFPA 99Health Care Facilites Code*, 2021 ed. National Fire Protection Association , 2021, ISBN: 1455926256.

Natioal Fire Protection Association. *NFPA Medical Gas and Vacuum Systems Handbook* , 2021 ed. National Fire Protection Association, 2021, ISBN: 1455927171.

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>Nov 18, 2022</i>
Department Chair/Area Director: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Nov 30, 2022</i>
Dean: <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>Dec 08, 2022</i>
Curriculum Committee Chair:		

Randy Van Wagnen

Recommend Approval

Feb 06, 2023

Assessment Committee Chair:

Shawn Deron

Recommend Approval

Feb 06, 2023

Vice President for Instruction:

Victor Vega

Approve

Feb 09, 2023