

# ASSE 6005 / 6010 /6020

2018 NFPA 99 COURSES

COURSE DATE: March 2-5, 2021  
COURSE LOCATION: Virtual - must have computer  
REGISTRATION DEADLINE: February 12, 2021  
COURSE LANGUAGE: English

## ASSE 6005 MEDICAL GAS GENERALIST

**Description:** A 24-hour training course for medical gas system engineers, designers, and personnel in need of general medical gas system information.

**Prerequisite:** None

**Cost:** \$650.00 (MGA credentialing)

\*This course provides general knowledge of medical gas and vacuum systems for the purpose of providing continuing education. Eligible individuals include any person with an interest in medical gas and vacuum systems and equipment.

## ASSE 6010 MEDICAL GAS INSTALLER

**Description:** A 32-hour course for medical gas system installers, which includes both a written and a practical brazing test. Brazing credentials are re-issued on a six-month time interval to ensure continuity of brazing expertise.

**Prerequisite:** Four (4) years of documented practical experience in the installation of piping systems.

**Cost:** \$850.00 (MGA credentialing)

\*This course is approved in the following states: Georgia, Alabama, Tennessee, North Carolina, South Carolina, New York, Michigan, Indiana, Mississippi, Iowa, Arkansas, Virginia, Kansas, Alaska, Oklahoma and Colorado.

If you work in another state, please check with the governing authority in that state for course approval.

## ASSE 6020 MEDICAL GAS INSPECTOR

**Description:** A 24-hour training course for medical gas system inspectors who inspect and review medical gas system installations for both governmental and private agencies.

**Prerequisite:** Two (2) years of documented practical experience.

**Cost:** \$650.00 (MGA credentialing)

\*This course applies to any individual who inspects the installation of medical gas and vacuum distribution systems. Medical gas systems and equipment covered in this standard include health care facilities within the scope of NFPA 99-2018, Health Care Facilities Code. Medical gas systems include vacuum systems.

**Please note:** If you are attending a virtual class, we do require each student to have a computer (desktop or laptop), webcam and high speed internet connection.

## COURSE SYNOPSIS

Within the three days of classroom time, the NFPA 99 document is covered in (9) segments with each segment reviewed by a corresponding worksheet of multiple-choice questions. A lecture session of each segment will be accompanied by a PowerPoint presentation, after which each student will complete the appropriate worksheet. Each student will work on a (65) question pre-exam progressively over the three-day period as time permits in class, and/or in the evenings after class. Homework will be issued on days one and two, which will cover the material taught during the day by placing the student in some decision-making scenarios with written questions. Day four will consist of a 100-question written or computer exam. Time will be allocated on the afternoon of day three and/or four for the brazing instruction and test.\*\* Credentials will be issued by MGA or NITC, after successful completion.

Each student will receive a three-ring instruction binder, and a copy of the 2018 edition of NFPA 99.

\*\*The course for obtaining the ASSE 6005/6020 credential is the same except for brazing instruction and test.

EMGS courses are taught by a credentialed asse 6050 instructor with over 20 years of training experience in the medical gas industry.



**Environmental &  
Medical Gas Services**

103 Hunter Industrial Dr.  
Villa Rica, GA 30180

FAX: 770-459-1812  
PHONE: 770-459-5920

# ASSE 6005/6010/6020 MEDICAL GAS CERTIFICATION

## COURSE OUTLINE

### DAY ONE (8 hours)

- a. Chapter 3 definitions
- b. Chapter 4 fundamentals
- c. Chapter 5 sources (Manifolds, Bulk Cryogenic Systems, and Medical Air systems)
- Homework (2 hours)

### DAY THREE (8 hours)

- a. Chapter 5 Labeling and Testing
- b. chapter 5 Maintenance, Manufactured Assemblies, and Category 2 Systems
- c. Chapter 15 Dental Gas and Vacuum Systems
- d. Brazing Instruction and Q&A (6010 students only)
- Study Guide (2 hours)

### DAY TWO (8 hours)

- a. Chapter 5 Sources (Medical Vacuum and WAGD Systems and Instrument Air Systems)
- b. Chapter 5 Valves
- c. Chapter 5 Outlets/Inlets
- d. Chapter 5 Alarms
- e. Chapter 5 Distribution Piping Homework (2 hours)

### DAY FOUR (2-4 hours)

- a. Oral Question and Answer Session (if required)
- b. Written Exam

## EQUIPMENT REQUIRED FOR ASSE 6010 COURSES ONLY

We recommend that each student have:

- (10) 1-1/2" Mueller W 01063 copper coupling fittings (standard type "L" plumbing fittings are acceptable and the fittings do not need to be cleaned for oxygen service). We highly recommend using these ring type couplings rather than dimple type.
- Minimum 10' of copper tubing type "L" size 1-1/2" (standard copper, does not need to be cleaned and capped). The 10' of 1-1/2" copper tubing can be cut into (10) 7" lengths, and (10) 5" lengths for placement in our brazing jig. Please cut pipe with a tubing cutter. This will expedite your practice and brazing procedures. Fittings and pipe need to have no oxidation present.
- (1) Pound or (28) sticks of BCUP 5 silver brazing rods with a minimum of 15% silver content (substitute 2-15% is not acceptable).

ASSE 6005, 6010 and 6020 training courses are taught by Environmental & Medical Gas Services.

Credentials are issued from a "Recognized third party certification agency" either NITC (National Inspection Testing Certification) or MGA, LLC (Medical Gas Accreditation) for compliance with Section 1-1.3, 5-4.1.1, 10-3.2.3, and 20-4.1.2 of the 2015 edition of ASSE/IAPMO/ANSI Series 6000 Standard. For MGA credentialing, please complete the appropriate ASSE 6000 application. For NITC credentialing, please complete the NITC application.

**Please note: Virtual Classes are MGA credentialing only.**

In the state of Georgia, a plumbing license is required to install medical gas. You can gain your medical gas license before your plumbing license or vice versa but you must hold both. Other states may or may not require this. If you are unsure, please check with your state authority for state requirements.



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