

Environmental & Medical Gas Services

103 Hunter Industrial Dr. FAX: 770-459-1812
Villa Rica, GA 30180 PHONE: 770-459-5920

COURSE DATE: August 21-24, 2023 **COURSE**

LOCATION: EMGS - Villa Rica, GA

REGISTRATION DEADLINE: July 31, 2023

COURSE LANGUAGE: English

ASSE 6040 MEDICAL GAS SYSTEMS

MAINTENANCE PERSONNEL COURSE SYNOPSIS

DAY ONE

- A. ASSE 6040/NFPA 99 Introduction
- B. NFPA 99 Definitions Chapter 3
- C. NFPA 99 Fundamentals Chapter 4
- D. NFPA 99 Central Supply/Source Systems Requirements

DAY THREE

- A. Station Outlets/Inlets
- B. Manufactured Assemblies
- C. Alarm/Warning Systems
- D. Medical Gas System Testing
- E. Medical Gas System Labeling and Verification

DAY TWO

- A. Medical Air Supply/Source Systems
- B. Medical Air Supply/Source Proportioning Systems
- C. Medical Surgical Vacuum Supply/Source Systems
- D. Waste Anesthetic Gas Disposal (WAGD) Supply/Source Systems
- E. Instrument Air Supply/Source Systems
- F. Gas and Vacuum Shutoff Valves

DAY FOUR

- A. Maintenance of Medical Gas, Vacuum, WAGD, and Medical Support Gas Systems
- B. Category 2 and Category 3 Systems
- C. Gas Equipment Storage, Operations and Maintenance
- D. ASSE 6040 Professional Qualification Standard, Annex D and Annex J
- E. Test

If you have to cancel your course attendance after payment has been processed, you will have a credit towards a future course for one year. It is the responsibility of the student to sign up for another upcoming course within that year.

ASSE 6040 MEDICAL GAS SYSTEMS

MAINTENANCE PERSONNEL COURSE SYNOPSIS

The course begins with an introduction to the 2021 NFPA 99 Code and ASSE Series 6000 Standard. Chapters 1, 3, 4, 5 and 9 from the NFPA 99 are covered, along with the ASSE 6040 "Medical Gas Systems Maintenance Personnel" Standard from the ASSE Series 6000, with Annex D and J.

Each student will receive complete copies of both documents.

Each student will have access to online source equipment operating technologies, schematic diagrams, operating and maintenance instructions for medical gas systems and question worksheets.

A minimum test score of 70% is required to pass the written exam. The exam consists of 100 questions and is an open book test. Upon successful completion of the course, a certificate and picture ID card are mailed to the student's employer.

The cost of the course is \$950 per student, with a minimum of (8) students required for a class. Class will start at 8:00 AM and last until approximately 5:00 PM each day, with the exception of the final (test) day, as some students may finish earlier than others

Please note: This course requires nightly homework. If you or your registered employee is required to attend class as well as perform job duties in the evenings, they are not likely to pass this test.

EMGS courses are taught by a credentialed ASSE 6050 instructor.



ASSE 6040

Exam Application

COURSE DATE:

TIME:

LOCATION:

REGISTRATION DEADLINE:

Return application to jdarden@emgsi.com

APPLICANT'S NAME: _____

ADDRESS: _____

CITY: _____

STATE: _____ ZIP: _____

APPLICANT EMAIL: _____

COMPANY: _____

PHONE NUMBER: _____

CONTACT PERSON: _____

EMAIL: _____

Paragraph 40-3.2.1 of the 2021 Edition of the ASSE 6040 Standard states "The candidates for the ASSE 6040 certification shall be employed or contracted by a health care facility or be actively engaged in working with medical gas systems, and shall have one (1) year minimum experience in the maintenance of the medical gas and vacuum systems." Please list the documented experience for the applicant below.

Employer, City & Phone Number

Dates

☐ I have read the Information Sheet for MGA Exams and agree to abide by the rules listed.

☐ I have or will have completed the 24-hour course required to fulfill this certification.

Please note: In order to keep this license valid, a short course and test must be completed every 3-years when a new NFPA 99 edition is released. This course and test will cover changes made from the previous edition. It is the license holders responsibility to check their expiration date and schedule testing, although MGA will send an email to currently licensed individuals at least once when a new NFPA 99 edition is released.

SIGNATURE OF APPLICANT: _____ DATE: _____

Medical Gas Licensing

FAX: 678-498-2749

PHONE: 770-783-3630

WEBSITE: www.medgaslicense.com

MAIL: PO Box 820
Villa Rica, GA 30180



MEDICAL GAS
ACCREDITATION



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TRAINING CREDIT CARD AUTHORIZATION FORM

MasterCard: _____ Visa: _____ Discover: _____ Amex: _____

Card Number: _____

Expiration Date: _____

Name as it appears on credit card: _____

Billing Address: _____

3-or 4-digit security code: _____

Total amount authorized to charge: _____

Cardholder signature: _____

Email address for receipt: _____

ASSE 6005 - \$750

ASSE 6010 - \$950

ASSE 6020 - \$850

ASSE 6040 - \$950

**All pricing includes class materials, NFPA 99 book, final test
and supplemental books or standards depending upon certification.**

Does not include braze materials for ASSE 6010.

Please note: Payment is due by the registration deadline. If attendance is canceled after this date, we will apply payment towards another class held within 6 months. It is the applicant's responsibility to keep track of class credit for upcoming courses.



MEDICAL GAS

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Information Sheet for MGA Exams

- To qualify for the **ASSE 6005** exam, the candidate must meet the requirements of the **ASSE 6005** which are as follows:
 1. Have a general interest in medical gas and vacuum systems and equipment.
 2. Complete a 24-hour course taught by an ASSE 6050 certified instructor.
 3. Successfully complete a written or computer exam.

- To qualify for the **ASSE 6010** exam, the candidate must meet the requirements of the **ASSE 6010** which are as follows:
 1. ASSE 6010 - 2021 Para. 10-3.2.1 – “The candidates for the ASSE 6010 certification shall have a minimum of four (4) years of documented practical experience in the field of installation of plumbing or mechanical piping systems.”
 2. Complete a 32-hour course taught by an ASSE 6050 certified instructor.
 3. Successfully complete a written or computer exam.
 4. Successfully complete a practical brazing exam.
 5. In addition, most states require that medical gas installers hold a journeyman or master plumbing license. If you are in the process of gaining your plumbing license, the ASSE 6010 certification can typically be added after you’ve gained your plumbing license even if this course is completed first.

- To qualify for the **ASSE 6020** exam, the candidate must meet the requirements of the **ASSE 6020** which are as follows:
 1. ASSE 6020 – 2021 Para. 20-4.1.1 – “The candidates for ASSE 6020 certification shall be employed by a governmental unit as a plumbing and/or mechanical inspector, or as an administrator of such inspectors, or be a person regularly involved in the design, inspection or verification of medical gas systems, or be a 6010 installer. Candidates shall have a minimum of two (2) years of documented practical experience or any combination of the above.”
 2. Complete a 24-hour course taught by an ASSE 6050 certified instructor.
 3. Successfully complete a written or computer exam.



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- To qualify for the **ASSE 6030** exam, the candidate must meet the requirements of the **ASSE 6030** which are as follows:
 1. ASSE 6030 – 2021 Para. 30-3.2.1 – “The candidates for ASSE 6030 certification shall have a minimum of two (2) years of documented practical experience in the verification of medical gas systems.”
 2. Complete a 32-hour course taught by an ASSE 6050 certified instructor.
 3. Successfully complete a written or computer exam.
 4. Successfully complete a practical exam.

- To qualify for the **ASSE 6035** exam, the candidate must meet the requirements of the **ASSE 6035** which are as follows:
 1. ASSE 6035 – 2021 Para. 35-3.2.1 – “The candidates for ASSE 6035 certification shall have a minimum of two (2) years of documented practical experience in the verification and/or inspection of bulk medical gas/cryogenic fluid central supply systems.
 2. Complete a 32-hour course taught by an ASSE 6050 certified instructor OR hold an ASSE 6030 medical gas verifier’s credential and complete an additional minimum 16hour training course.
 3. Successfully complete a written or computer exam.
 4. Successfully complete a practical exam.

- To qualify for the **ASSE 6040** exam, the candidate must meet the requirements of the **ASSE 6040** which are as follows:
 1. ASSE 6040 – 2021 Para. 40-3.2.1 – “The candidates for ASSE 6040 certification shall be employed or contracted by a health care facility or be actively engaged in working with medical gas systems and shall have one (1) year minimum experience in the maintenance of the medical gas and vacuum systems.”
 2. Complete a 24-hour course taught by an ASSE 6050 certified instructor.
 3. Successfully complete a written or computer exam.



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- To qualify for the **ASSE 6050** exam, the candidate must meet the requirements of the **ASSE 6050** which are as follows:
 1. ASSE 6050 – 2021 Para. 50-3.2.1 – “The candidates for ASSE 6050 certification shall have a minimum of ten (10) years of documented experience in the installation of plumbing or mechanical piping systems, including a minimum of two (2) years of documented experience in the installation of medical gas and vacuum systems. Instructors shall have a minimum of two (2) years of documented practical teaching experience. Instructors shall possess a current medical gas systems installer certification in compliance with ASSE Standard 6010.”
 2. Complete a 40-hour course taught by an ASSE 6050 certified instructor.
 3. Successfully complete a written or computer exam.

- To qualify for the **ASSE 6060** exam, the candidate must meet the requirements of the **ASSE 6060** which are as follows:
 1. ASSE 6060 – 2021 Para. 60-3.2.1 – “The candidates for ASSE 6060 certification shall have two (2) years of documented practical experience in the mechanical and plumbing systems industry and require practical knowledge of the design of medical gas and vacuum systems.
 2. Complete a 32-hour course taught by an ASSE 6050 certified instructor.
 3. Successfully complete a written or computer exam.



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Appeals Process:

Appeals to any certification rule or procedure must be made in writing and sent via US mail, email or fax. A written response from MGA will be returned within 30 days.

Suspension or Revocation Process:

Brazing must be performed every six months and an affidavit returned stating that the installer has used the brazing technique within the previous six months at least once. These can be returned late provided that the installer is willing to sign sworn affidavits that the brazing process was performed every six months. However, if no affidavits have been returned for a period of (24) months, the installer must submit a vertical brazed coupon for testing to reinstate his brazing certification.

If an installer neglects to take the required course and test on two subsequent NFPA 99 editions, his license may be revoked, and a new course may be required.

Inappropriate Representation:

If any MGA license holder misrepresents his license in any way, to include falsifying the scope of his certification or ability, his license can be revoked.

ASSE 6000 Passing Exam Grades:

ASSE 6005 – 70%

ASSE 6010 – 70%

ASSE 6020 – 70%

ASSE 6030 – 85%

ASSE 6035 – 85%

ASSE 6040 – 70%

ASSE 6050 – 85%

ASSE 6060 – 70%



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ASSE 6000 Exam Materials Allowed:

6005 – NFPA 99
NFPA 55
ASSE 6000

6010 – NFPA 99
ASSE 6000

6020 – NFPA 99
NFPA 55
ASSE 6000

6030 – NFPA 99
NFPA 55
ASSE 6000
CGA M-1

6035 – NFPA 99
NFPA 55
ASSE 6000
CGA M-1
CGA P-18
CGA E-10
CGA G-4.1
21 CFR part 210, 211 and 820

6040 – NFPA 99
ASSE 6000

6050 – NFPA 99
NFPA 55
CGA M-1

6060 - NFPA 99
NFPA 55
ASSE 6000
ASPE Design Guide Vol 3