Environmental & Medical Gas Services

103 Hunter Industrial Dr.
Villa Rica, GA 30180

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

COURSE DATE: January 12-15, 2027
COURSE LOCATION: *EMGS office and virtually over Zoom*
REGISTRATION DEADLINE: December 22, 2026
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 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 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 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 2024 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 $1100 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 with over 20 years of experience in the medical gas industry.

EMGS

ASSE 6040

Exam Application

COURSE DATE: January 12-15, 2027

TIME: 8:00 AM Eastern

LOCATION: EMGS office or virtually over Zoom

REGISTRATION DEADLINE: December 22, 2026

Return application to jdarden@emgsi.com

COMPANY

COMPANY NAME: _____

MAILING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____

APPLICANT

NAME: _____

PHONE: _____

EMAIL: _____

CONTACT PERSON: _____ **CONTACT EMAIL:** _____

Contact person will receive future renewal information. If this is same as applicant, leave blank.

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

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Ph. (770) 459-5920
Fax (770) 459-1812

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 - $850
ASSE 6010 - $1100
ASSE 6020 - $950
ASSE 6040 - $1100
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 12 months. It is the applicant's responsibility to keep track of class credit for upcoming courses.

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MGA Exams and Processes

MGA Exams

MGA exams are online and meet the grading requirements listed in ASSE 6000. Students applying to take the MGA exam should send the appropriate exam application, certificate of completion for their training course, headshot photo and payment information to cs@medgaslicense.com. There is additional documentation required for ASSE 6030 applicants. Instructors who are applying on the behalf of their students will need to send the exam application(s), date of training and payment information.

Please note: This packet does not include information about the ASSE 6070 certification, but MGA does plan to offer an exam for that credential in 2026.

Proctoring

MGA exams are online and proctored over Zoom every Tuesday and Thursday at 9 AM, 10 AM or 2 PM Eastern Time (afternoons are reserved for exams with a 3-hour time limit). Applicants will need to apply at least 2 days prior to their requested exam date. A laptop or desktop computer and webcam are required.
For in-person exams, choosing a proctor is at the discretion of the instructor or manager. MGA will need the proctor's name, email address, phone number and job title or position.

Exam Time Limits

- The ASSE 6005, 6010, 6020, 6040 and 6060 exams have a 3-hour time limit.
- The ASSE 6030 has a 4-hour time limit for the multiple-choice portion and a 2-hour time limit for the practical portion.
- ASSE 6035 and 6050 exams have a 4-hour time limit.
- Recertification exams have a 2-hour time limit.

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Failed Exams and Retesting

MGA will allow up to two retests at no additional charge if a student fails their exam. MGA will also email a list of NFPA 99 categories that are found on the exam and the number of questions that the student missed within each category.

Completed Exams

Students will immediately receive their grade after submitting their exam attempt, except for the ASSE 6030 practical exam portion which must be graded manually. If the exam is passed, they will receive a certificate and ID card after all other requirements are fulfilled. They will be added to the public MGA online database for easy lookup and have a private certification webpage that is accessible via a QR code printed on their ID card.

ASSE 6010 Exams

The MGA ASSE 6010 exam includes a practical braze exam. There is a witness form to be sent in with the student's coupons. If the student will be brazing without being under the direct supervision of their ASSE 6050 instructor, they need to have two witnesses, one of whom should be an officer in their company. If the student is brazing under an ASSE 6050 instructor's supervision, their instructor can sign as their witness.

- The MGA standard brazing qualification is ¼" to 3" nominal pipe size.
- MGA has a brazing procedure for up to 6" nominal pipe size at an additional cost.

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Exam Grading and Prerequisite Requirements

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%

ASSE 6005

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

ASSE 6010

- To qualify for the **ASSE 6010** certification, the candidate must meet the requirements of the ASSE 6010 Standard which are as follows:
    - 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."
    - Complete a 32- hour course taught by an ASSE 6050 certified instructor.
    - Successfully complete a written or computer exam.
    - Successfully complete a practical brazing exam.

- 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.
- NOTE: The initial MGA brazing procedure specification will qualify brazers on ¼" to 3" tubing. The initial brazing procedure is required for all installers. If qualification for larger pipe sizes is required, MGA also has a brazing procedure specification for qualifying brazers on ¾" to 6" tubing at an additional cost.

ASSE 6020

- To qualify for the **ASSE 6020** certification, the candidate must meet the requirements of the ASSE 6020 Standard which are as follows:

  - 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."
  - Complete a 24-hour course taught by an ASSE 6050 certified instructor.
  - Successfully complete a written or computer exam.

ASSE 6030

- To qualify for the ASSE 6030 certification, the candidate must meet the requirements of the ASSE 6030 Standard which are as follows:

  - 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."
  - Complete a 32-hour course taught by an ASSE 6050 certified instructor.
  - Successfully complete a written or computer exam.
  - Successfully complete a practical exam.

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ASSE 6035

- To qualify for the ASSE 6035 certification, the candidate must meet the requirements of the ASSE 6035 Standard which are as follows:

  - 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."
  - 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 16-hour training course covering bulk medical gas/cryogenic fluid supply systems, the FDA CGMPs, CGA M-1 and applicable sections of ASSE/IAPMO/ANSI Series 6000, NFPA 99 and NFPA 55.
  - Successfully complete a written or computer exam.
  - Successfully complete a practical exam.

ASSE 6040

- To qualify for the ASSE 6040 certification, the candidate must meet the requirements of the ASSE 6040 Standard which are as follows:

  - 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."
  - Complete a 24-hour course taught by an ASSE 6050 certified instructor.
  - Successfully complete a written or computer exam.

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ASSE 6050

- To qualify for the ASSE 6050 certification, the candidate must meet the requirements of the ASSE 6050 Standard which are as follows:

  - 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."
  - Complete a 40-hour course taught by an ASSE 6050 certified instructor.
  - Successfully complete a written or computer exam.

ASSE 6060

- To qualify for the ASSE 6060 certification, the candidate must meet the requirements of the ASSE 6060 Standard which are as follows:

  - 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."
  - Complete a 32-hour course taught by an ASSE 6050 certified instructor.
  - Successfully complete a written or computer exam.

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ASSE 6000 Allowed Exam Materials

Please note the edition of the materials used will depend on the course and exam that's taken

ASSE 6005:
- 2021 or 2024 NFPA 99
- 2020 or 2023 NFPA 55
- 2018 or 2021 ASSE 6000

ASSE 6010:
- 2021 or 2024 NFPA 99
- 2018 or 2021 ASSE 6000

ASSE 6020
- 2021 or 2024 NFPA 99
- 2020 or 2023 NFPA 55
- 2018 or 2021 ASSE 6000

ASSE 6030
- 2021 or 2024 NFPA 99
- 2020 or 2023 NFPA 55
- 2018 or 2023 ASSE 6000
- 2018 CGA M-1

ASSE 6035
- 2021 or 2024 NFPA 99
- 2020 or 2023 NFPA 55
- 2018 or 2021 ASSE 6000
- 2018 CGA M-1
- 2020 CGA P-18
- 2018 CGA E-10
- 2018 CGA G-4.1
- 21 CFR part 210, 211 and 280

ASSE 6040:
- 2021 or 2024 NFPA 99
- 2018 or 2021 ASSE 6000

ASSE 6050:
- 2021 or 2024 NFPA 99
- 2020 or 2023 NFPA 55
- 2018 or 2023 ASSE 6000
- 2018 CGA M-1

ASSE 6060
- 2021 or 2024 NFPA 99
- 2020 or 2023 NFPA 55
- 2018 or 2021 ASSE 6000
- 2019 ASPE Design Guide, Vol 3
- 2018 FGI Guidelines for Hospitals

ASSE 6000 Recertification Exam
- NFPA 99
- Supplemental training materials from 4-hour recertification course

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Additional Information

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.

Inappropriate Representation

If any MGA license holder misrepresents their license in any way, to include falsifying the scope of their certification or ability, MGA reserves the right to revoke the certification.

Recertification

ASSE 6000 requires a minimum 4-hour training course and short exam to subsequent editions of NFPA 99. This training must be conducted by an ASSE 6050 instructor.
MGA offers recertification exams for all MGA credentialed personnel to meet this requirement after proof of a 4-hour training course.
If an MGA certified license holder neglects to take the required course and test on two subsequent NFPA 99 editions, their license may be revoked, and a new initial certification course may be required.

ASME IX Braze Renewals

Per NFPA 99, para. 5.1.10.11.11.7 “Performance qualifications of brazers shall remain in effect indefinitely, unless the brazer does not braze with the qualified procedure for a period exceeding 6 months or there is a specific reason to question the ability of the brazer.”
All ASSE 6010 license holders must have a current ASSE 6010 certification and braze certification for the license to be valid.
MGA sends emails each December and July with braze renewal affidavits and payment forms, due back by January 31st and July 31st, respectively. If the installers 6010 and braze certifications are current, they will receive an updated license. There is no charge for the first braze renewal since it will fall within the first 6 months since initial certification.

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License Transfers

MGA will accept license transfers from all recognized medical gas credentialing agencies on a case-by-case basis. To apply for a transfer, please send the appropriate transfer form with a copy of your most current license and a head shot photo.
If your license is not current, you will be required to renew any lapsed certifications through MGA before a new license is issued.

For all ASSE 6010 license transfers: If your initial braze qualification procedure was performed on 1 ½" tubing, you will be qualified for ¼" – 3" tubing under the initial MGA brazing procedure specification. If you also performed a test on 3" tubing, you will be qualified under the MGA larger pipe size brazing procedure specification for ¾" – 6" tubing.