

ASSE 6000 Series Course Catalog

CONTENTS _____

| 1. A Partner in Medical Gas Education & Safety | 3 |
|--|-----|
| 2. Our instructors | 3 |
| 3. ASSE 6005 – Medical Gas Systems Generalist | 4 |
| 4. ASSE 6010 – Medical Gas Systems Installer | 5 |
| 5. ASSE 6020 – Medical Gas Systems Inspector | 7 |
| 6. ASSE 6040 – Medical Gas Systems Maintenance | 8 |
| 7. ASSE 6060 – Medical Gas Systems Designer | 9 |
| 8. ASSE 6000 Series – Refresher Course to NFPA99-2021 Ed | .10 |
| 9. Certifications and Credentials by BeaconMedaes | .11 |
| 10. How to register and start | .11 |

A Partner in Medical Gas Education & Safety : _____

Education has always been a foundation of BeaconMedaes' relationships with our customers.

Having team members trained on their specific roles and responsibilities around medical gas systems is the only way to ensure patient safety. Regardless of your role or function at a facility there is a training series for you. The courses were created by professionals who have been in the medical gas industry for more than 75 years collectively, in a variety of different capacities. By taking the courses either online and in person, these classes represent progressing and we at BeaconMedaes and MyMedGas are proud to be a part of that journey with you.

To assure that our client's education is the best that they can obtain, we offer these three types of training classes through our MyMedGas platform and credentials formally through our digital credential partner, Accredible.



If you have any question about the best training for you or your facility, please don't hesitate to reach out to us at **mymedgas.edu@beaconmedaes.com**

Our instructors : _____

With over a half dozen certified ASSE 6050 – Medical Gas Systems Instructors we have trainers located across the USA ready to assist in training you. These instructors have worked to develop these courses by following the rules and standards of the NFPA 99 code and combining their years of experience and expertise in the field of medical gas.

Not only do they know the code and standards but they also know the equipment. If you are looking for a customized course, or one specific to the maintenance of the equipment installed in your facility, our team will be able to put it together.

Medical Gas System education is truly the foundation of BeaconMedaes.

ASSE 6005 – Medical Gas Systems Generalist :

Course Description : ASSE 6005 is a general interest course for any person with an interest in knowing more about medical gas systems and equipment, the standards that govern them, general safety when working with them, or any other interest in the subject. The course provides an introduction to the rules of the NFPA 99, the NFPA 55, and the ASSE 6000 Series, along with an understanding of the roles of the gases,

the environment of the medical gas system and safety when working with these systems. The safety of the patient is the central theme of the course.

ASSE defines the medical gas generalist as any person having a general interest in the medical gas and vacuum systems and equipment and the course leads to that credential.

| Intended For. | People who are working in, with or around Medical Gas Systems. Such as architects, engineers, medical staff, and government officials. |
|---|--|
| Material Covered during Training: | Alphabet Soup - The standards which apply The 10 Hazards - Safety around Medical Gases Building Blocks I - The major subsystems and familiarity with medical gas terms The First Rule of Medical Gas Building Blocks II - Valves and Alarms Building Blocks III - How a medical air system is constructed around the First Rule The Second Rule of Medical Gas Building Block IV - Complying with the Second Rule by good installation practices Build Blocks V - Enforcing Compliance with testing The Installer and Verifier Peak Performance - Maintaining a Medical Gas and Vacuum System What's Documented is Done - Testing and Record keeping |
| Training Formats: | Online training: Work at your own pace around your current work schedule. This course takes a minimum of 24 hours to complete. What to expect: There will be individual video modules (each approximately 45-75mins long), that can be paused, and played over. However, we encourage you to complete each module uninterrupted. There are also online quizzes and a final exam. In-Person training: We offer in person training of the same ciriculum. Typically we schedule for large private groups close to your facility. Please contact us at mymedgas.edu@beaconmedaes.com for more information. |
| Prerequisites: | No prerequisite required |
| Requirements: (For both In- person and Online Classes) | The student will need access to a computer with a stable internet connection with the ability to stream videos and take exams online uninterrupted. The student is required to have a current copy of the NFPA 99-2021 edition which is not included. It is not included and can be purchased from the NFPA website |
| Final Exam: (The exam in online, computer and internet access are required.) | A minimum of 50 randomized, multiple-choice questions Minimum passing grade of 70% Time limit of 1 ¼ hours (75 minutes) to complete the exam Maximum of 3 attempts to pass. If you do not pass after 3 attempts, you will be required to take and pay for the full course again Open Book exam |
| Credentials Provided: | All credentials are provided digitally through our verified credential partner, Accredible. You will receive a PDF certificate, a digital ID card for your mobile phone wallet and a digital badge. Credential valid for 3 years upon successful completion |
| Renewals: | You can renew your credential to the latest code through the ASSE 6000 refresher course. This course should be taken one month before the expiration of your credential to ensure continuity. |
| Price: | Online training: Please see our current pricing online. Included is the online training course and the written exam. Not included: NFPA 99-2021 Book. In-Person training: Please contact us at this link or email us at mymedgas.edu@beaconmedaes.com for custom pricing. |

ASSE 6010 – Medical Gas Systems Installer :

Course Description : This is the Medical Gas Installer course leading to the ASSE 6010 qualification. The ASSE 6010 credential is mandatory for persons who install medical gas and vacuum systems, particularly those who will perform brazing operations.

An in-depth introduction to the rules of NFPA 99, NFPA 55 and the ASSE 6000 Series is provided. Alongside these we discuss the role of the gases, installation practices, environment of the medical gas system and safety when working around these systems. Training on the proper method to braze medical gas piping is given. The credential is awarded after a written exam and a sample braze are performed and verified by a 3rd party lab.

The ASSE 6010 Installer course is composed of 2 educational components. The first component is

training coursework (Part A) which covers medical gas equipment, usage in a medical facility, and related NFPA requirements. The second component (Part B) is a one-day, practical brazing examination scheduled in your facility or proctored virtually through a video call to witness the braze sample(s). All candidates are required to pass both educational components to qualify as ASSE 6010 Medical Gas Installers

The validity of the ASSE 6010 - Medical Gas Systems Installer credential REQUIRES that the credential holder verify every 6 months that they are still performing the qualified brazing procedure in the field. Otherwise the credential will no longer be valid (expired).

| Intended For. | People who are installing medical gas pipelines and equipment |
|---|--|
| Material Covered during Training: | Alphabet Soup - The standards which apply The 10 Hazards - Safety around Medical Gases Construction - The process of installing medical gases Building Blocks I - The major subsystems and familiarity with medical gas terms Protecting the Patient - Good and bad in medical gas installation Building Blocks II - Valves and Alarms Building Blocks III - How a medical air system is constructed around the First Rule When to call the verifier What's Documented is Done - Testing and Record keeping |
| Training Formats: | Online training: Work at your own pace around your current work schedule. This course takes a minimum of 32 hours to complete. What to expect: There will be individual video modules (each approximately 45-75mins long), that can be paused, and played over. However, we encourage you to complete each module uninterrupted. There are also online quizzes and a final exam. You will also be expected to perform a physical brazing sample while connected to a video conference call with our proctor. This sample will need to be sent to a 3rd party lab to text. In-Person training: We offer in person training of the same ciriculum. Typically we schedule for large private groups close to your facility. Please contact us at mymedgas.edu@beaconmedaes.com for more information. |
| Prerequisites: | A minimum of four (4) years of documented practical experience in the field of installation of plumbing or mechanical piping systems. |
| Requirements: (For both In- person and Online Classes) | The student will need access to a computer with a stable internet connection with the ability to stream videos and take exams online uninterrupted. The student is required to have a current copy of the NFPA 99-2021 edition which is not included. It is not included and can be purchased from the NFPA website The student will need to perform a physical brazing sample while connected to a video call (MS Teams) with a certified proctor. These brazing samples will need to be mailed into a lab for inspection. |

| Final Exam: (The exam in online, computer and internet access are required.) | Part A - Written Exam A minimum of 100 randomized, multiple-choice questions Minimum passing grade of 70% Time limit of 3 hours (180 minutes) to complete the exam Maximum of 3 attempts to pass. If you do not pass after 3 attempts, you will be required to take and pay for the full course again Open Book exam Part B - Sample Braze A physical brazing demo and sample is required (with defined specifications). These sample brazes are sent to a 3rd party lab for inspection. |
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| Credentials Provided: | All credentials are provided digitally through our verified credential partner, Accredible. You will receive a PDF certificate, a digital ID card for your mobile phone wallet and a digital badge Credential valid for 3 years upon successful completion, HOWEVER, the brazer must demonstrate every 6 months that they are still actively brazing in the field. This is done by having a witness attest (using an online form) that the credential holder is still brazing. If the brazing continuity expires without being renewed then the brazer will be subject a re-brazing session and submitting the new sample for inspection. NOTE: the ASSE 6010 requires both Parts A and B to be in good standing to remain valid. |
| Renewals: | Part A – Written Exam You can renew your credential to the latest code through the ASSE 6000 refresher course. This course should be taken one month before the expiration of your credential to ensure continuity. Part B – Brazing continuity (required every 6 months) Done every 6 months via online form. Follow this link to renew. |
| Price: | Online training: Please see our current pricing online. Included is the online training course and the written exam. Not included: NFPA 99-2021 Book, physical pipe or supplies for brazing test, mailing of brazing coupon in for inspection. In-Person training: Please contact us at this link or email us at mymedgas.edu@beaconmedaes.com for custom pricing. |



ASSE 6020 – Medical Gas Systems Inspector : _

Course Description: The ASSE 6020 credential is intended for persons who need to oversee the work of others, primarily on the job site but also possibly in a design firm or engineering office. Course is designed to provide a broad understanding of medical gases and medical gas systems with the expectation that the participant will be prepared to visit job sites and identify common problems with installations. An introduction to the rules of NFPA 99, NFPA 55 and the ASSE 6000 Series is provided, along with an understanding of the role of the gases, environment of the medical gas system and safety when working around these systems.

| Intended For. | Typical attendees might include government officials, supervising engineers, site managers, design engineers who perform site reviews, and facilities managers. |
|---|---|
| Material Covered during Training: | Alphabet Soup - The standards which apply The 10 Hazards - Safety around Medical Gases Building Blocks I - The major subsystems and familiarity with medical gas terms The First Rule of Medical Gas Building Blocks II - Valves and Alarms Building Blocks III - How a medical air system is constructed around the First Rule The Second Rule of Medical Gas Building Block IV - Complying with the Second Rule by good installation practices Build Blocks V - Enforcing Compliance with testing Peak Performance - Testing and Second Rule. Post-maintenance What's Documented is Done - Testing and Record keeping |
| Training Formats: | Online training: Work at your own pace around your current work schedule. This course takes a minimum of 24 hours to complete. What to expect: There will be individual video modules (each approximately 45-75mins long), that can be paused, and played over. However, we encourage you to complete each module uninterrupted. There are also online quizzes and a final exam. In-Person training: We offer in person training of the same ciriculum. Typically we schedule for large private groups close to your facility. Please contact us at mymedgas.edu@beaconmedaes.com for more information. |
| Prerequisites: | • A minimum of two (2) years of documented practical experience either; employed by a government 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. |
| Requirements: (For both In- person and Online Classes) | The student will need access to a computer with a stable internet connection with the ability to stream videos and take exams online uninterrupted. The student is required to have a current copy of the NFPA 99-2021 edition which is not included. It is not included and can be purchased from the NFPA website The student will need to perform a physical brazing sample while connected to a video call (MS Teams) with a certified proctor. These brazing samples will need to be mailed into a lab for inspection. |
| Final Exam: (The exam in online, computer and internet access are required.) | A minimum of 100 randomized, multiple-choice questions Minimum passing grade of 70% Time limit of 3 hours (180 minutes) to complete the exam Maximum of 3 attempts to pass. If you do not pass after 3 attempts, you will be required to take and pay for the full course again Open Book exam |
| Credentials Provided: | All credentials are provided digitally through our verified credential partner, Accredible. You will receive a PDF certificate, a digital ID card for your mobile phone wallet and a digital badge Credential valid for 3 years upon successful completion. |
| Renewals: | You can renew your credential to the latest code through the ASSE 6000 refresher course. This course should be taken one month before the expiration of your credential to ensure continuity. |
| Price: | Online training: Please see our current pricing online. Included is the online training course and the written exam. Not included: NFPA 99-2021 Book. In-Person training: Please contact us at this link or email us at mymedgas.edu@beaconmedaes.com for custom pricing. |

ASSE 6040 – Medical Gas Systems Maintenance :

Course Description: The ASSE 6040 credential is intended for persons who perform maintenance on medical gas and vacuum system components. An introduction to the rules of NFPA 99, NFPA 55 and the ASSE 6000 Series is provided, but the emphasis is not on the rules themselves but on the why behind the rules. Alongside these, we discuss the role of the

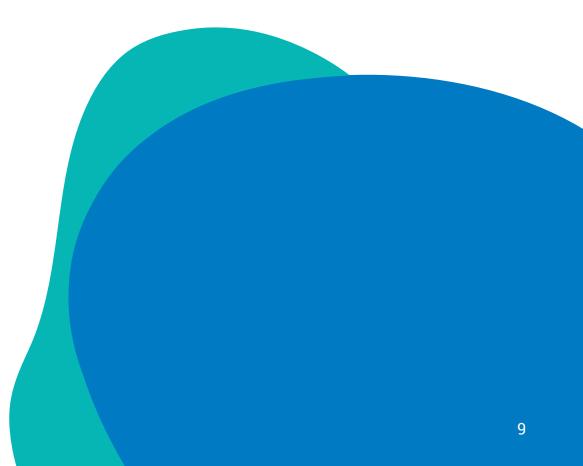
gases, environment of the medical gas system and safety when working around these systems. Practical exercises will be included as practical within the format of the course. Safety and protection of the patient through careful work practices are the central theme of the course. Test methods for troubleshooting will be discussed.

| Intended For: | Typical attendees might include maintenance personnel employed by a medical facility or a maintenance subcontractor working for a medical facility. |
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| Material Covered during Training: | Alphabet Soup - The standards which apply The 10 Hazards - Safety around Medical Gases Building Blocks I - The major subsystems and familiarity with medical gas terms Understanding Upstairs - How the Medicos Use medical gases and what they need from them Protecting the Patient - Work practices with medical gases The First Rule of Medical Gas Building Blocks II - Valves and Alarms Building Blocks III - How a medical air system is constructed around the First Rule The Second Rule of Medical Gas Building Block IV - Complying with the Second Rule by good installation practices Build Blocks V - Enforcing Compliance with testing When to call the Verifier What's Documented is Done - Testing and Record keeping |
| Training Formats: | Online training: Work at your own pace around your current work schedule. This course takes a minimum of 24 hours to complete. What to expect: There will be individual video modules (each approximately 45-75mins long), that can be paused, and played over. However, we encourage you to complete each module uninterrupted. There are also online quizzes and a final exam. In-Person training: We offer in person training of the same ciriculum. Typically we schedule for large private groups close to your facility. Please contact us at mymedgas.edu@beaconmedaes.com for more information. |
| Prerequisites: | The candidate shall be employed or contracted by a health care facility or be actively engaged in working with medical gas systems and have one (1) year minimum experience in the maintenance of the medical gas and vacuum systems. |
| Requirements: (For both In- person and Online Classes) | The student will need access to a computer with a stable internet connection with the ability to stream videos and take exams online uninterrupted. The student is required to have a current copy of the NFPA 99-2021 edition which is not included. It is not included and can be purchased from the NFPA website |
| Final Exam: (The exam in online, computer and internet access are required.) | A minimum of 100 randomized, multiple-choice questions Minimum passing grade of 70% Time limit of 3 hours (180 minutes) to complete the exam Maximum of 3 attempts to pass. If you do not pass after 3 attempts, you will be required to take and pay for the full course again Open Book exam |
| Credentials Provided: | All credentials are provided digitally through our verified credential partner, Accredible. You will receive a PDF certificate, a digital ID card for your mobile phone wallet and a digital badge Credential valid for 3 years upon successful completion. |
| Renewals: | You can renew your credential to the latest code through the ASSE 6000 refresher course. This course should be taken one month before the expiration of your credential to ensure continuity. |
| Price: | Online training: Please see our current pricing online. Included is the online training course and the written exam. Not included: NFPA 99-2021 Book. In-Person training: Please contact us at this link or email us at mymedgas.edu@beaconmedaes.com for custom pricing. |

ASSE 6060 – Medical Gas Systems Designer : .

Course Description : The ASSE 6060 course is intended for those who want to learn to design how to design medical gas systems. The course included learning the layout, the sizing and selection of equipment and piping, the location of medical gas outlets and vacuum inlets and the assessment of existing systems and equipment that is covered in the NFPA 99. This 32hour course covers the NFPA 99, NFPA 55, and FGI guidelines and elements of design.

| Intended For:• Typical attendees might include design engineers, project managers.Material Covered during Training:• Design guideTraining Formats:• In-Person training: We the course in person with a minimum of 32 hours training followed by an exam. Typically we schedule for large private groups close to your facility. Please contact us at mymedgas.edu@beaconmedaes.com for more information.Prerequisites:• The candidate shall have minimum of two (2) years documented experience in the mechanical and plumbing knowledge of the design of medical gas and vacuum systems.Requirements: (For both In- person and Online Classes)• The student will need access to a computer with a stable internet connection with the ability to stream videos and take exams online uninterrupted. • The student is required to have a current copy of the NFPA 99-2021 edition which is not included. It is not included and can be purchased from the NFPA websiteFinal Exam: (The exam in online, computer and internet access are required.)• In-Person training: Please contact us at this link or email us at mymedgas.edu@beaconmedaes.com for custom pricing. | | |
|---|--|--|
| during Training:Training Formats:In-Person training: We the course in person with a minimum of 32 hours training followed by an exam. Typically we schedule for large private groups close to your facility. Please contact us at mymedgas.edu@beaconmedaes.com for more information.Prerequisites:• The candidate shall have minimum of two (2) years documented experience in the mechanical and plumbing knowledge of the design of medical gas and vacuum systems.Requirements: (For both In- person and Online Classes)• The student will need access to a computer with a stable internet connection with the ability to stream videos and take exams online uninterrupted. • The student is required to have a current copy of the NFPA 99-2021 edition which is not included. It is not included and can be purchased from the NFPA websiteFinal Exam: (The exam in online, computer and internet access are required.)• A minimum of 100 questions exam • 50% of the questions a practical design exercise onticel design exercisePrice:• In-Person training: Please contact us at this link or | Intended For | Typical attendees might include design engineers, project managers. |
| exam. Typically we schedule for large private groups close to your facility. Please contact us at mymedgas.edu@beaconmedaes.com for more information. Prerequisites: The candidate shall have minimum of two (2) years documented experience in the mechanical and plumbing knowledge of the design of medical gas and vacuum systems. Requirements: The student will need access to a computer with a stable internet connection with the ability to stream videos and take exams online uninterrupted. The student is required to have a current copy of the NFPA 99-2021 edition which is not included. It is not included and can be purchased from the NFPA website Final Exam: A minimum of 100 questions exam 50% of the questions a practical design exercise Som of the questions a practical design exercise Price: In-Person training: Please contact us at this link or | | • Design guide |
| and plumbing knowledge of the design of medical gas and vacuum systems. Requirements: (For both Inperson and Online Classes) The student is required to have a current copy of the NFPA 99-2021 edition which is not included. It is not included and can be purchased from the NFPA website Final Exam: (The exam in online, computer and internet access are required.) Price: In-Person training: Please contact us at this link or | Training Formats: | exam. Typically we schedule for large private groups close to your facility. Please contact us at |
| (For both In- person and Online Classes) The student is required to have a current copy of the NFPA 99-2021 edition which is not included. It is not included and can be purchased from the NFPA website A minimum of 100 questions exam 50% of the questions a practical design exercise 50% of the questions a practical design exercise Price: In-Person training: Please contact us at this link or | Prerequisites: | |
| (The exam in online, computer and internet access are required.) • In-Person training: Please contact us at this link or | (For both In- person and | stream videos and take exams online uninterrupted. • The student is required to have a current copy of the NFPA 99-2021 edition which is not |
| · | (The exam in online, computer and internet access are | • |
| | Price: | - |



ASSE 6000 Series – Refresher Course to NFPA99-2021 Ed. : _

Course Description : The ASSE 6000 is a training course to highlight the changes on the NFPA 99 codes latest edition. The NFPA 99 is updated every three (3) years and ASSE 6000 series credentials must be renewed and recertified to the latest available NFPA 99 code. This course will review the changes in

detail and provide an exam and certificate of completion.

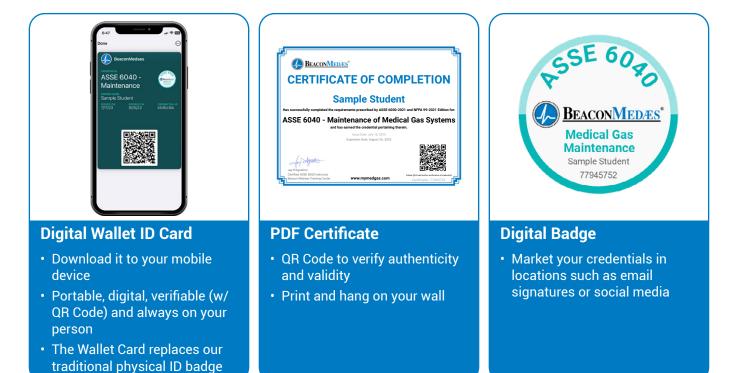
The ASSE 6000 refresher course will allow you to recertify any current ASSE 6005, 6010, 6020 or 6040 credentials with your current issuer.

| Intended For: | Current holders of the ASSE 6005, 6010, 6020 or 6040 credentials who are looking to learn about the latest revision of the NFPA 99 code and recertify their credentials to that code. NOT Intended for persons trying to recertify their ASSE 6015, 6030, 6035, 6055 or 6060 certifications as they require different training and exam material. |
|---|--|
| Material Covered during Training: | • NPFA 99 – 2021 HealthCare Facilities Code - New code updates from the previous release. |
| Training Formats: | Online training: Work at your own pace around your current work schedule. This course takes a minimum of 4 hours to complete. What to expect: There will be individual video modules (each approximately 45-75mins long), that can be paused, and played over. However, we encourage you to complete each module uninterrupted. There are also online quizzes and a final exam. |
| Prerequisites: | • Current holders of valid (not expired) ASSE 6005, 6010, 6020 or 6040 credentials. |
| Requirements: (For both In- person and Online Classes) | The student will need access to a computer with a stable internet connection with the ability to stream videos and take exams online uninterrupted. The student is required to have a current copy of the NFPA 99-2021 edition which is not included. It is not included and can be purchased from the NFPA website |
| Final Exam: (The exam in online, computer and internet access are required.) | A minimum of 25 randomized, multiple-choice questions Minimum passing grade of 70% Time limit of 3/4 hours (45 minutes) to complete the exam Maximum of 3 attempts to pass. If you do not pass after 3 attempts, you will be required to take and pay for the full course again Open Book exam |
| Credentials Provided: | • If your credentials are with Beacon Medaes then your specific credentials will be renewed for 3 years. If your credentials are with another authority then you will be provided a PDF certificate showing completion that you can take to your current credential provider as proof of completion. |
| Price: | Online training: Please see our current pricing online. Included is the online training course and the written exam. Not included: NFPA 99-2021 Book, physical pipe or supplies for brazing test, mailing of brazing coupon in for inspection. |

Certifications and Credentials by BeaconMedaes

By attending and successfully passing the final exam of one of the ASSE 6000 series training programs BeaconMedaes will provide the student with a secure and verifiable digital credential. We have partnered with Accredible, an industry leading digital credential management software, to provide secure credentials. Their bank-level encryption and Blockchain logging means it is virtually impossible to create a fake copy and puts verification of a credential at your fingertips with QR code and one-click verification. It also allows the student a wallet with all of their credentials centralized in one spot.

Accredible allows you to share your certifications through your email, LinkedIn, or even add it to your mobile wallet. Upon successful completion the student will receive a credential in three (3) distinct formats:



NOTE: We no longer print and mail paper certificates or wallet cards. All credentials are digital, traceable, and secure through Accredible.

To renew your credential, you will need to complete an approved ASSE 6000 Series refresher course to the most current NFPA 99 code. NOTE: the refresher course must be taken before your credential expires.

If you have any questions regarding the credentials provided or processes and proceedures in place please contact us at mymedgas.edu@beaconmedaes.com

How to register for a ASSE course

Step 1: Register with a <u>MyMedGas account @ app.mymedgas.com</u> If you already have an account please log in. • For a new sign up please follow the steps in <u>this link</u>.

- NOTE: every new user must be verified by BeaconMedaes before their account is activated. This should not take more than two business days.
- If you have delays or questions please contact mymedgas.edu@beaconmedaes.com
- Step 2: Once you can login to MyMedGas follow the steps in <u>this link</u> to find and register for the specific training you are looking for.
 - NOTE: if you are wishing to sign up multiple people or pay on your account with a PO, please contact mymedgas.edu@beaconmedaes.com and we can help get your team registered appropriately.





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