Medical Gas Pipeline Systems: An Introduction to Medical Gases

About this Course

Medical gases are used every day by millions of people in thousands of different locations. These gases perform a critical role in healthcare delivery in such locations as hospitals, homes, ambulances, dental offices, and more. This course will provide an overview of medical gases, helping students better identify what they are, their uses, and safety considerations when they are in use. Students will also gain insight into the governing Standard, Z7396.1-09, Medical Gas Pipeline Systems, Part 1: Pipelines for Medical Gases and Vacuum, the foundation for installation of medical gas systems within healthcare facilities.

Course Objectives

Upon completion of the course students will have a greater understanding, awareness and appreciation of medical gases, their uses and safety considerations.

Students will gain a better understanding of:

> medical gas basics and their uses in medical facilities and therapies
> manufacturing, distribution and safe storage methods for medical air
> the importance of Compressed Gas Association (CGA) regulations outlining safe operation of medical gas containers and safety precautions
> the various uses for medical gas as they relate to therapies performed inside or outside of a healthcare facility
> labeling practices for identifying contents within medical gas cylinders and the WHMIS identification system
> devices used for measuring/regulating gas pressure/flow and how correct usage can directly impact patient health
> development, delivery and application of Standards in the healthcare industry with a focus on medical gases and medical gas pipeline systems
> maintaining a medical gas pipeline system in proper working order, including identification of key areas to focus maintenance efforts on and signals which may indicate potential issues

Medical Gas Pipeline Systems: An Introduction to Medical Gases is the first course in a series of planned courses related to the Z7396 Standard. This course is basic awareness-level training related to Medical Gases. Future courses will be of intermediate and/or advanced level, delving into more detail of the technical content of the Z7396 Standard.
Successful Completion Requirements
Presented in seven (7) modules, with additional information available within resource documents called “Course Reader”. Upon completion of each module, and upon course completion, students will be presented with an online quiz to measure and re-enforce key learnings.

Time to Course Completion
Approx. 14 hours (two days)

Registration Includes
> 60 day Online Course Access
> Course Reader: At certain points within each module, students will be instructed to refer to the Course Reader, which provides further information on that particular topic. The Course Reader may be saved or printed for future reference.

Prerequisites
None; field experience and general awareness of the Z7396.1-09, the foundation for medical gas system installations within Healthcare Institutions, will be of benefit, but is not required.

How to Access the Course
This product is accessed via the CSA website (an internet connection is required). Current versions of Adobe Flash Player and Adobe Acrobat are also required (visit www.adobe.com to download the latest versions for free)

Price
$295; Volume Pricing Available

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Audience
> Any healthcare facility using centralized delivery systems: hospitals, doctor & dental offices, nursing homes, clinics, private surgical centres.
> Healthcare Facilities Managers/Supervisors
> Healthcare Facilities Maintenance and Engineering Staff
> Provincial Safety Codes Officers
> Mechanical contractors and Medical Gas Installers
> Healthcare Engineering Consultants
> Quality Control Contractors

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