

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.*

STANDARDS and so much more

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 Health-care 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

USERS	% DISCOUNT	PER USER
1 – 4		\$295
5 – 9	10%	\$266
10 – 24	15%	\$251
25 – 49	20%	\$236
50 – 99	25%	\$221
100 – 249	30%	\$207
250 – 499	40%	\$177
500+	50%	\$148

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

TO PURCHASE

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ABOUT CSA STANDARDS

CSA Standards' reputation as a leading standards development organization dates back more than 90 years. As an independent, not-for-profit membership association, we publish over 3,000 standards and standards-related products in a wide range of subject areas. We also offer a full suite of services and solutions that help you understand, interpret and apply standards so you can achieve the most value from employing standards.

CSA Standards is a division of CSA Group, which also consists of CSA International for product testing and certification and OnSpeX for consumer product evaluation services.

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ABOUT CANADIAN HEALTHCARE ENGINEERING SOCIETY (CHES)

The Canadian Healthcare Engineering Society (CHES) is a national professional society representing individuals who practice engineering and facilities management in healthcare institutions. Founded in 1980, it currently represents over 800 individuals active in the delivery of healthcare engineering technology in the areas of administration, planning, design, construction, operations and management of facility technical services systems. Dedicated to their mission of 'building member expertise', CHES provides a vehicle for communication and professional development in healthcare facilities management and gives its members essential resources to manage the 'built environment' for efficient and effective healthcare delivery.