



## **Completed Projects / Projets terminés**

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### **New Standards – New Editions – Special Publications**

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#### **Gas Technician Training 2 — Module 10, 3rd edition**

*Piping and Tubing Systems for Industrial and Commercial Applications*..... \$40

This module is designed to provide the gas technician with a thorough knowledge and understanding of the following:

- Code requirements and approved joining methods
- welding safety, certification, and procedures
- utility and non-utility piping and tubing
- piping layout, drawings, and symbols
- sizing high-pressure piping and tubing systems
- purging operations on large piping systems.

#### **Gas Technician Training 2 — Module 11, 3rd edition**

*Basic Electricity* ..... \$40

This module is designed to provide the gas technician with a thorough understanding of the following:

- the function of a building power supply
- common features of power supplies
- interpreting electrical drawings
- using measuring and testing instruments
- the function of electrical circuits and hardware
- servicing millivolt systems.

#### **Gas Technician Training 2 — Module 12, 3rd edition**

*Controls* ..... \$40

Gas-fired appliances are designed, built, and installed for various processes. The supply of gas and the disbursement of the energy produced must be done safely and efficiently. This is accomplished with the use of controls and control systems. The types, concepts, and operations for these controls are numerous: from manual to automatic, and from electrical to mechanical, as well as solid state. This module gives an overview of how gas systems are controlled and how various components are used

to start, stop, and sequence the operation in a way that ensures the equipment is working correctly.



## New Standards – New Editions – Special Publications (cont’d)

### Gas Technician Training 2 — Module 13, 3rd edition

*The Building as a System* ..... \$40

Technological advances in the construction industry that make buildings more energy-efficient, comfortable, and cost-effective have carried with them the need for tradespeople to understand the building as a whole system.

This module covers the following:

- key components
- building science principles
- energy conservation methods
- indoor air quality.

### Gas Technician Training 2 — Module 14, 3rd edition

*Domestic Appliances* ..... \$40

This module covers the installation, servicing, and maintenance of common gas-fired domestic appliances, including ranges and ovens, clothes dryers, barbecues, and gas-fired lamps.

### Gas Technician Training 2 — Module 15, 3rd edition

*Pressure Regulators, Overpressure Protection, Meters and Fuel Containers*..... \$40

This module covers the following:

- selecting and installing the correct gas pressure regulator for a system
- the need for overpressure protection and how to achieve this
- reading and clocking meters
- identifying and planning for the correct use of propane cylinders and tanks.

### Gas Technician Training 2 — Module 16, 3rd edition

*Domestic Gas-Fired Refrigerators*..... \$40

This module covers the following:

- the operation of a domestic gas-fired refrigerator
- the installation procedures for a domestic gas-fired refrigerator
- the service and maintenance procedures for a domestic gas-fired refrigerator.

### Gas Technician Training 2 — Module 17, 3rd edition

*Conversion Burners*..... \$40

A conversion burner is one designed to fit an appliance that originally burned a fuel other than natural gas or propane. The most common units burned oil; however, some burned solid fuel (sawdust, wood, or coal).

Safe and satisfactory operation of a gas conversion burner depends upon proper preparation, selection, and installation. Conversion burners should be installed according to the Code book, manufacturer’s instructions, and local codes.

**New Standards – New Editions – Special Publications (cont’d)**

**Gas Technician Training 2 — Module 17 (cont’d)**

This module covers the following:

- determining guidelines for converting appliances
- preparing appliances and venting systems for conversion
- selecting and installing a conversion burner
- conducting flue gas analysis and adjusting the conversion burner based on the results.

**Gas Technician Training 2 — Module 18, 3rd edition**

*Water Heaters and Combination Systems* ..... \$40

The types of gas water heaters, controls, components, and piping systems vary greatly, as do the installation requirements for each type.

This module covers the following:

- identifying and understanding the operation of gas-fired water heaters
- identifying and understanding the operation of combination systems
- sizing and installing gas-fired hot water heating and combination systems
- servicing hot water heating and combination systems.

**Gas Technician Training 2 — Module 19, 3rd edition**

*Forced Warm-Air Heating Systems* ..... \$40

The requirements for gas installations vary between single family dwellings and commercial and industrial applications.

This module covers the following:

- Code requirements and approved joining methods
- welding safety, certification, and procedures
- utility and non-utility piping and tubing
- piping layout, drawings, and symbols
- sizing high-pressure piping and tubing systems
- purging operations on large piping systems.

**Gas Technician Training 2 — Module 20, 3rd edition**

*Hydronic Heating Systems* ..... \$40

This module covers the following:

- hydronic system boilers
- distribution and control systems
- circulators
- installation checks and servicing hydronic boiler controls
- installation and servicing of pool heating systems.



## New Standards – New Editions – Special Publications (cont’d)

### Gas Technician Training 2 — Module 21, 3rd edition

*Space Heaters and Decorative Appliances* ..... \$40

To ensure a satisfied user, it is important to match the appliance size and capacity to the user’s needs and expectations. This requires a good knowledge of the various appliances and how well each works in a given situation.

This module covers installing and servicing space heaters and decorative appliances.

### Gas Technician Training 2 — Module 22, 3rd edition

*Venting Practices* ..... \$40

This module covers the following:

- venting systems
- vent design and installation requirements
- sizing venting systems
- vent installation and assembly
- vent inspection
- locating and sizing air supplies for equipment with inputs of 400 MBtu/h or less and for equipment with inputs of over 400 MBtu/h.

### Gas Technician Training 2 — Module 23, 3rd edition

*Forced Air Add-On Devices*..... \$40

A forced-air furnace must never be operated without a filter installed. Add-on devices such as filters, air cleaners, humidifiers, and cooling coils improve the air quality in a building heated by a forced-air furnace.

This module covers the following:

- selecting, installing, and maintaining appropriate air filters and air cleaners
- selecting, installing, and maintaining appropriate humidifiers
- inspecting and cleaning an add-on cooling coil.

### Gas Technician Training 2 — Module 24, 3rd edition

*Air Handling* ..... \$40

The principles governing building heating, cooling, and ventilation are directly related to the comfort levels and health of building occupants.

This module covers the following:

- requirements and standards governing the principles of heat loss and heat gain
- terminology used in air handling and building construction
- heat transfer and the calculation of heating and cooling loads
- properties and characteristics of air
- operation and installation of gas-fired duct furnaces
- function of the duct system
- calculation of air flow through the duct system using standard equations
- relationships between the mechanical components of the air handling system and air flow
- service and adjustment procedures for air-handling units.

**New Standards – New Editions – Special Publications (cont’d)**

**ANSI Z21.56-2006/CSA 4.7-2006, 3rd edition**  
*Gas-Fired Pool Heaters* ..... \$715

This standard applies to newly produced pool heaters constructed entirely of new, unused parts and materials, for heating nonpotable water stored at atmospheric pressure, such as water in swimming pools, spas, hot tubs, and similar appliances, for use with natural gas, manufactured gas, mixed gas, liquefied petroleum gases, and LP gas-air mixtures.

**ANSI Z21.94-2006/CSA 6.31-2006, 1st edition**  
*Automatic Flammable Vapor Sensor Systems and Components* ..... \$440

This standard applies to flammable vapor sensors and systems intended for use in gas-burning appliances.

This standard covers the details of construction, performance, and testing of flammable vapor sensors and systems used for sensing the presence of flammable vapors in residential applications.

**ANSI Z83.8-2006/CSA 2.6-2006, 3rd edition**  
*Gas Unit Heaters and Gas-Fired Duct Furnaces*..... \$725

This standard applies to newly produced gas-fired duct furnaces and unit heaters with input rates up to and including 10,000,000 Btu/h (2 931 KW) constructed entirely of new, unused parts and materials, for use with the following:

- natural gas with inlet gas pressures up to and including 5.0 psi (34.5 kPa)
- liquefied petroleum gases
- natural gas and liquefied petroleum gases, when provision is made for the conversion from one gas to the other.

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**Amendments**

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**CAN/CSA-P.3-04**  
*Testing Method for Measuring Energy Consumption and Determining Efficiencies of Gas-Fired Storage Water Heaters*

Revision of the outside front cover, and the title page. Addition of National Standards of Canada text.

**ANSI Z21.10.1a-2006/CSA 4.1a-2006**  
*Addenda A to “Gas Water Heaters, Volume I, Storage Water Heaters with Input Ratings of 75,000 Btu per Hour or Less”* ..... \$90

This document provides revisions to ANSI Z21.10.1-2004/CSA 4.1-2004.

**ANSI Z21.47b-2006/CSA 2.3b-2006**  
*Addenda B to “Gas-Fired Central Furnaces”* ..... \$110

This document provides revisions to ANSI Z21.47-2003/CSA 2.3-2003 and ANSI Z21.47a-2004/CSA 2.3a-2004.



## Amendments (cont'd)

### **ANSI Z21.54a-2006/CSA 8.4a-2006**

*Addenda A to “Gas Hose Connectors for Portable Outdoor Gas-Fired Appliances”* ..... \$85

This document provides revisions to ANSI Z21.54-2002/CSA 8.4-2002.

### **ANSI Z21.58a-2006/CSA 1.6a-2006**

*Addenda A to “Outdoor Cooking Gas Appliances”* ..... \$105

This document provides revisions to ANSI Z21.58-2005/CSA 1.6-2005.

### **ANSI Z21.69b-2006/CSA 6.16b-2006**

*Addenda B to “Connectors for Movable Gas Appliances”* ..... \$80

This document provides revisions to ANSI Z21.69-2002/CSA 6.16-2002 and ANSI Z21.69a-2003/CSA 6.16a-2003.

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## Modifications publiées en français

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### **CAN/CSA-P.3-04**

*Méthode d'essai pour mesurer la consommation d'énergie et le rendement énergétique des chauffe-eau au gaz à accumulation*

Des modifications ont été apportées à la première de couverture et à la page titre. Le texte relatif aux Normes nationales du Canada a été ajouté.

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## Reaffirmed Standards

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### **CGA 1.3-1974 (R2006)**

*Domestic Hot Plates and Laundry Stoves*

### **CAN1-1.16-M79 (R2006)**

*Propane-Fired Cooking Appliances for Recreational Vehicles*

### **CAN1-2.23-M82 (R2006)**

*Gas-Fired Portable Infrared Heaters*

### **CAN1-3.1-77 (R2006)**

*Industrial and Commercial Gas Fired Package Boilers*

### **CAN1-6.2-M81 (R2006)**

*Draft Hoods*

### **CAN1-6.4-M79 (R2006)**

*Automatic Gas Ignition Systems and Components*

### **CAN1-6.6-M78 (R2006)**

*Gas Appliance Thermostats*



## Reaffirmed Standards (cont'd)

### **CSA 6.19-01 (R2006)**

*Residential Carbon Monoxide Alarming Devices*

### **CAN1-8.3-77 (R2006)**

*Thermoplastic Hose and Hose Couplings for Conducting Propane and Natural Gas*

### **CAN1-11.4-M79 (R2006)**

*Portable-Type Gas Camp Refrigerators*

### **CAN1-12.4-M84 (R2006)**

*Dispensing Devices for Propane Fuel for Highway Vehicles*

### **CAN/CSA-B108-99 (R2006)**

*Natural Gas Fuelling Stations Installation Code*

### **ANSI/IAS NVG1-1997/CGA NGV1-M97 (R2006)**

*Compressed Natural Gas Vehicle (NGV) Fueling Connection Devices*

### **ANSI Z21.15-1997/CGA 9.1-M97 (R2006)**

*Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves*

### **ANSI Z21.40.1-1996/CGA 2.91-M96 (R2006)**

*Gas-Fired, Heat Activated Air-Conditioning and Heat Pump Appliances*

### **ANSI Z21.40.2-1996/CGA 2.92-M96 (R2006)**

*Gas-Fired, Work Activated Air-Conditioning and Heat Pump Appliances (Internal Combustion)*

### **ANSI Z21.40.4-1996/CGA 2.94-M96 (R2006)**

*Performance Testing and Rating of Gas-Fired, Air-Conditioning and Heat Pump Appliances*

### **ANSI Z21.66-1996/CGA 6.14-M96 (R2006)**

*Automatic Vent Damper Devices for Use with Gas-Fired Appliances*

## ***Under Development***

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### **Notice of Intent**

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For more information about the proposed development of the following new project, contact Tony Joseph at 416-747-4035 or [tony.joseph@csa.ca](mailto:tony.joseph@csa.ca):

- **P.4.1, 2nd edition**

*Testing Method for Measuring Annual Fireplace Efficiency*



### Notice of Intent (cont'd)

For more information about the proposed development of the following new projects, contact Tony Cautillo at 416-747-2212 or [tony.cautillo@csa.ca](mailto:tony.cautillo@csa.ca):

- **CSA 6.19, 2nd edition**  
*Residential Carbon Monoxide Alarming Devices*
- **B108, 3rd edition**  
*Natural Gas Fuelling Stations Installation Code*
- **B109, 2nd edition**  
*Natural Gas for Vehicles Installation Code*
- **B149.1, 14th edition**  
*Natural Gas and Propane Installation Code*
- **B149.2, 10th edition**  
*Propane Storage and Handling Code*
- **B149.3, 4th edition**  
*Code for the Field Approval of Fuel-Related Components on Appliances and Equipment*
- **B149.5, 4th edition**  
*Installation Code for Propane Fuel Systems and Tanks on Highway Vehicles*
- **B149.6, 1st edition**  
*Code for Digester Gas and Landfill Gas Installations*

## Certification and Testing (CSA International)

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### Informs Notices

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Date	Subject	Title
February 24, 2006	Publication of Technical Information Letter No. R-20, expanding the scope of CSA 12.6-04, <i>Vehicle Refuelling Appliances (VRA)</i> , to provide requirements for the installation of a VRA in a garage.	Gas Products No. 95
March 20, 2006	Publication of ANSI Z21.56-2006/CSA 4.7-2006, <i>Gas-Fired Pool Heaters</i> . The revisions in this standard supersede any corresponding provisions of ANSI Z21.56-2001/CSA 4.7-2001, ANSI Z21.56a-2004/CSA 4.7a-2004 and ANSI Z21.56b-2004/CSA 4.7b-2004.	Gas Products No. 97






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**Certification Notices**


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**Please note:** ► Notices marked with an arrowhead are new in this issue.

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
June 1, 2006	Publication of ANSI Z21.13-2004/CSA 4.9-2004, <i>Gas-Fired Low-Pressure Steam and Hot Water Boilers</i> . The revisions in this standard supersede any corresponding provisions of ANSI Z21.13-2000/CSA 4.9-2000, ANSI Z21.13a-2002/CSA 4.9a-2002, and ANSI Z21.13b-2003/CSA 4.9b-2003.	Gas Products No. 45
June 1, 2006	Publication of ANSI Z83.18-2004, <i>Recirculating Direct Gas-Fired Industrial Air Heaters</i> . The revisions in this standard supersede any corresponding provisions of ANSI Z83.18-2000, ANSI Z83.18a-2001, and ANSI Z83.18b-2003.	Gas Products No. 59
July 1, 2006	Publication of ANSI/IAS LC1-2005/CSA 6.26-2005, <i>Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST)</i> . The revisions in this standard supersede any corresponding provisions of ANSI/IAS LC-1-1997, ANSI/IAS LC-1a-1999, and ANSI/IAS LC 1b-2001.	Gas Products No. 81
July 1, 2006	Publication of ANSI Z21.41a-2005/CSA 6.9a-2005, <i>Quick Disconnect Devices for Use With Gas Fuel Appliances</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.41-2003/CSA 6.9-2003.	Gas Products No. 82
August 1, 2006	Publication of ANSI Z21.1-2005, <i>Household Cooking Gas Appliances</i> . The revisions in this standard supersede any corresponding provisions of ANSI Z21.1-2000, ANSI Z21.1a-2003, and ANSI Z21.1b-2003.	Gas Products No. 67
August 1, 2006	Publication of ANSI Z21.58-2005/CSA 1.6-2005, <i>Outdoor Cooking Gas Appliances</i> . The revisions in this standard supersede any corresponding provisions of ANSI Z21.58-1995/CGA 1.6-M95, ANSI Z21.58a-1998/CGA 1.6a-1998, and ANSI Z21.58b-2002/CGA 1.6b-2002.	Gas Products No. 68
August 1, 2006	Publication of ANSI Z21.20-2005, <i>Automatic Gas Ignition Systems and Components</i> . The revisions in this standard supersede any corresponding provisions of ANSI Z21.20-2000, Z21.20a-2000, and Z21.20b-2001.	Gas Products No. 69

**Certification Notices (cont'd)**

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
August 1, 2006	Publication of ANSI Z21.13a-2005/ CSA 4.9a-2005, <i>Gas-Fired Low-Pressure Steam and Hot Water Boilers</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.13-2004/CSA 4.9-2004.	Gas Products No. 75
September 1, 2006	Publication of Update No. 14 to CSA standard CAN1-3.1-77 (R2001), <i>Industrial and Commercial Gas-Fired Package Boilers</i> .	Gas Products No. 86
September 1, 2006	Withdrawal of ANSI Z83.17/CAN 1-3.12, <i>Direct Gas-Fired Door Heaters</i> . The certification of direct gas-fired door heaters is now covered under ANSI Z83.4/CSA 3.7, <i>Non-Recirculating Direct Gas-Fired Industrial Air Heaters</i> .	Gas Products No. 87
September 1, 2006	Publication of ANSI Z21.50b-2005/ CSA 2.22b-2005, <i>Vented Gas Fireplaces</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.50-2003/CSA 2.22-2003 and Z21.50a-2003/CSA 2.22a-2003.	Gas Products No. 91
September 1, 2006	Publication of ANSI Z21.86a-2005/ CSA 2.32a-2005, <i>Vented Gas-Fired Space Heating Appliances</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.86-2004/CSA 2.32-2004.	Gas Products No. 92
September 1, 2006	Publication of ANSI Z21.88-2005/ CSA 2.33-2005, <i>Vented Gas Fireplace Heaters</i> . The revisions in this standard supersede any corresponding provisions of ANSI Z21.88-2002/ CSA 2.33-2002, ANSI Z21.88a-2003/ CSA 2.33a-2003, and ANSI Z21.88b-2003/ CSA 2.33b-2003.	Gas Products No. 93
▶ May 1, 2007	Publication of ANSI Z21.58a-2006/ CSA 1.6a-2006, <i>Outdoor Cooking Gas Appliances</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.58-2005/ CSA 1.6-2005.	Gas Products No. 96
▶ May 1, 2007	Publication of ANSI Z21.47b-2006/ CSA 2.3b-2006, <i>Gas-Fired Central Furnaces</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.47-2003/ CSA 2.3-2003 and Z21.47a-2004/CSA 2.3a-2004.	Gas Products No. 102