

# GAS UTILITY CONSTRUCTION AND SERVICE DIPLOMA - 36 CREDITS

## About this program

The Gas Utility Construction and Service program prepares students to install, maintain and operate both high- and low-pressure natural gas distribution systems used to supply residential, commercial and industrial companies. Program graduates will be qualified to enter one of the most technologically intensive industries in today's economy with potential careers in gas construction mechanics, gas meter mechanics, gas service mechanics, gas clerk estimation, gas regulator maintenance mechanics, gas appliance repair and underground facilities location. \*This program is part of the MN Energy Academy and is located in the Minneapolis-St. Paul metro area.

## Program outcomes

- 1. Communicate technical information.
- 2. Operate tools and equipment.
- 3. Join pipe.
- 4. Install propane gas distribution systems.
- 5. Install natural gas distribution systems.
- 6. Operate pipeline excavation equipment.
- 7. Apply customer service skills.
- 8. Service gas appliances.
- 9. Maintain gas distribution systems.

## Curriculum overview

Crds Requirement type

36 Required courses

36 Total

**Developmental courses note:** A student may be required to enroll in developmental courses in reading, writing and math. A student's scores on the Accuplacer assessment will determine enrollment in developmental courses. The purpose of developmental courses is to prepare students for the demands of a college-level curriculum. *Credits may vary.* 

**Accreditation:** Minnesota State Community and Technical College is accredited by the Higher Learning Commission, a regional accreditation agency recognized by the U.S. Department of Education. The Higher Learning Commission 230 South LaSalle Street, Suite 7-500 Chicago, IL 60604-1411 http://www.ncahigherlearningcommission.org Phone: 312.263.0456 / 800.621.7440



# Curriculum requirement details

# Required courses

## Other requirements or restricted electives

Course	Crds
CONM2213 - Safety Management	2
GAS1000 - Gas Utility Field Training I	4
GAS1001 - Underground Utility Locating	2
GAS1002 - Gas Service Welding I	3
GAS1003 - Gas Utility Equipment Training	5
GAS1004 - Gas Utility Field Training II	4
GAS2001 - Forklift Certification	1
GAS2002 - Gas Utility Field Training III	5
GAS2003 - Gasless Leak Detection	3
GAS2600 - Electric and Gas Appliances	4
MATH1000 - Technical Mathematics	3



# Course summaries

CONM2213 - Safety Management	edits)
This course includes construction management applications in the areas of safety and health. Students will have an opportunity to earn OSHA 30 authorization for successful course completion.	ጋ-hour
GAS1000 - Gas Utility Field Training I	<b>edits)</b> 1. This
GAS1001 - Underground Utility Locating	ble.
GAS1002 - Gas Service Welding I	<b>edits)</b> its will
GAS1003 - Gas Utility Equipment Training	<b>edits)</b> is and
GAS1004 - Gas Utility Field Training II	<b>edits)</b> tion of
Prerequisites:	
• GAS1000	
GAS2001 - Forklift Certification	<b>edits)</b> nds-on
GAS2002 - Gas Utility Field Training III	<b>edits)</b> repair
GAS2003 - Gasless Leak Detection	edits)
GAS2600 - Electric and Gas Appliances  This course provides the student with the skills necessary for the installation, maintenance and repair of residential electric/gas appliances.	edits)
MATH1000 - Technical Mathematics	natical ourse-



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Program Plan — "Gas Utility Construction and Service"

Locations: Online

## 1st Fall Term (10 credits)

#### **Courses**

Course	Crd
GAS1000 - Gas Utility Field Training I	4
GAS1001 - Underground Utility Locating	2
GAS2600 - Electric and Gas Appliances	4

### 1st Spring Term (9 credits)

#### **Courses**

Course	Crd
GAS1003 - Gas Utility Equipment Training	5
GAS1004 - Gas Utility Field Training II	4

## 2nd Fall Term (11 credits)

#### **Courses**

Course	Cro
GAS2002 - Gas Utility Field Training III	5
GAS2003 - Gasless Leak Detection	3
MATH1000 - Technical Mathematics	3

## 2nd Spring Term (6 credits)

#### **Courses**

Course	Crds
CONM2213 - Safety Management	2
GAS1002 - Gas Service Welding I	3
GAS2001 - Forklift Certification	1