

# GAS UTILITY CONSTRUCTION AND SERVICE CERTIFICATE - 19 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

<b>Crds</b>	<b>Requirement type</b>
19	Required courses
19	<b>Total</b>

**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

<b>Course</b>	<b>Crds</b>
GAS1000 - Gas Utility Field Training I .....	4
GAS1001 - Underground Utility Locating .....	2
GAS1003 - Gas Utility Equipment Training .....	5
GAS1004 - Gas Utility Field Training II .....	4
GAS2600 - Electric and Gas Appliances .....	4



# Course summaries

**GAS1000 - Gas Utility Field Training I** ..... (4 credits)

This is an introductory laboratory course that prepares students for basic field utility work, including safety procedures and equipment operation. This course focuses on hands-on application and is intended to help students become confident in safely operating basic gas utility equipment.

**GAS1001 - Underground Utility Locating** ..... (2 credits)

This course provides the skills and procedures necessary to locate and accurately mark underground utilities including gas, electrical, water and cable.

**GAS1003 - Gas Utility Equipment Training** ..... (5 credits)

This is an Introductory course that prepares students for basic field utility work. The course includes safety procedures, equipment operations and maintenance.

**GAS1004 - Gas Utility Field Training II** ..... (4 credits)

This course provides practice in applied gas utilities tasks with a focus on installation. Students have theory and applied training with the installation of gas meters, valves, regulators and plastic pipe.

**Prerequisites:**

- GAS1000

**GAS2600 - Electric and Gas Appliances** ..... (4 credits)

This course provides the student with the skills necessary for the installation, maintenance and repair of residential electric/gas appliances.

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Program Plan — "Gas Utility Construction and Service"  
Locations: Online

## 1st Fall Term (19 credits)

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### Courses

Course	Creds
GAS1000 - Gas Utility Field Training I .....	4
GAS1001 - Underground Utility Locating .....	2
GAS1003 - Gas Utility Equipment Training .....	5
GAS1004 - Gas Utility Field Training II .....	4
GAS2600 - Electric and Gas Appliances .....	4