

CONTACT

For more information about the Industrial Pipefitting Program at Kellogg Community College, please contact:

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Industrial Trades Pipefitting



Regional Manufacturing Technology Center

Industrial Pipefitting Program

High-pressure and low-pressure piping systems are used in manufacturing, in the generation of electricity, and in the heating and cooling of buildings. Many of these systems are regulated by automatic controls, which may be accessed remotely. The Industrial Pipefitting Program at Kellogg Community College prepares students to install, maintain, and repair these systems.

EMPLOYMENT OPPORTUNITIES

Pipefitters work for companies or private contractors on a wide variety of commercial and industrial buildings including schools, hospitals, manufacturing facilities. Pipefitters also work for utility companies in natural gas facilities and power plants, for agricultural facilities, and for municipalities maintaining underground utility infrastructures.

Job growth rate from 2006-2016 7-13%

Median Annual Earnings \$21.94 per hour
or \$45,640 annually

Source: United States Bureau of Labor Statistics www.bls.gov

Career opportunities include:

- Plumbers, pipefitters, steamfitters
- Welders, cutters, solderers, brazers
- Mechanical Engineering Technicians

With further education, opportunities include:

- Maintenance Supervisors
- Mechanical Engineer
- Mechanical Drafters
- Technical Instructor

PROGRAM OPTIONS

Kellogg Community College offers three program options:

- Industrial Trades Certificate in Pipefitting (25 credits)
- Industrial Pipefitting Associate in Applied Science (62 credits)
- Skilled Trades Associate in Applied Science for Journeyman or USDOL Apprenticeship card holders (approximately 35 credits)

RECOMMENDED TECHNICAL ELECTIVES

Welding and Heating, Ventilation, Air Conditioning, and Refrigeration

COURSE WORK

The course work within the Industrial Pipefitting Program provides hands-on learning opportunities using real-world equipment. Courses are modular with the theory portion of the modules available for online completion. Modules are pass/fail, which means a student can continue to work on the module until they pass the module. Students receive one-on-one instruction from a journeyman instructor.

Topics covered in Industrial Pipefitting modules include:

- Plant Safety
- Mathematics for Pipefitting
- Introduction to Pipefitting
- Code and the Pipefitting Trade
- Piping Diagrams
- Thermodynamics and Heating Theory
- Fluid and Gas Properties
- Industrial Flow Control
- Boilers
- Steam
- Piping Applications
- Special Piping Applications
- Piping System Maintenance