

GET INTO ENERGY CAREER PATHWAYS

Natural Gas Technicians: Putting STEM* to Work

START
HERE

HIGH SCHOOL
DIPLOMA OR GED

EARN CREDENTIALS:

- National Career Readiness Certificate
- Energy Employability Skills Certificate
- Industry Fundamentals Certificate
- Natural Gas Boot Camp

LEARN MORE / EARN MORE

Pass Pre-Employment Tests and Become a
HELPER/MECHANIC

EDUCATIONAL OPPORTUNITIES FOR ADVANCEMENT

- Apprenticeship (for College Credit)**
- Experience in Position

6 MONTHS**

CREW ASSISTANT
(\$26,000)

- Associate's Degree
- Long-Term On-the-Job Training

2 YEARS**

**CREW MECHANIC/
STOREROOM TECHNICIAN**
(\$43,000)

- Long-Term On-the-Job Training
- Experience in Position

3 YEARS**

MACHINE OPERATOR
(\$49,000)

- Long-Term On-the-Job Training

6 YEARS**

CREW LEADER
(\$60,000)

- Bachelor's Degree
- Long-Term On-the-Job Training

7 YEARS**

SPECIALIST/SUPERVISOR
(\$75,000)

* Science, Technology, Engineering, and Math

** Dependent on company requirements



NATURAL GAS TECHNICIAN: What will you do?

What competencies will you need? (built on energy foundational competencies—incremental as career advances)

Note: Most utilities use a pre-employment test—to pass you will need math, communications, problem solving, and mechanical reasoning skills.

STARTING OFF AS A CREW ASSISTANT:

- Provide assistance to crew by providing tools and equipment
- Make work area safe
- Drive equipment to job site

- Teamwork
- Drive heavy commercial vehicles
- Lift 75 lbs
- Listen and follow directions
- Come to work on time and prepared
- Be able to stand for long periods of time
- Math skills including algebra, trig, and geometry

APPRENTICESHIP TRAINING COMPONENTS:

- Understand fundamentals of Alternating Current / Direct Current
- Demonstrate ability to fuse plastic pipe
- Operate backhoes and other trenching equipment
- Identify components and maintenance of valves
- Assemble and secure pipe
- Identify the necessary steps for the manual or remote opening and/or closing of a valve or other equipment
- Use appropriate equipment to locate gas mains and services

- Demonstrate skills learned in apprenticeship training on the job
- Dig trenches and make work area safe
- Understand the relationship of physical objects to one another in order to visualize how such objects act together

CREW MECHANIC:

- Prepare trenches for laying pipes
- Lay pipes for gas lines
- Fuse plastic pipe together
- Install and repair both high and low pressure pipe systems
- Install automatic controls used to regulate gas systems

- Define how the various parts of systems interact (e.g., parts of the distribution systems) and diagnose the effect on the system of changes or malfunctions in its parts
- Solve problems involving limited options by applying common sense understandings such as selecting the correct cutting tool or proper gauge of wire for a job
- Listen to and understand customer needs
- Estimate the size, length, or quantity of objects, as in selecting the proper wrench for a bolt, or choose the size of fitting required

CREW LEADERS:

- Determine schedules and work activities of crew members
- Check for unsafe work conditions
- Communicate effectively with others, including customers, crew members, and supervisors
- Deal with potentially stressful situations

- People management
- Communications skills
- Assign priority or sequence to the steps for completing a job
- Coordinate several, competing activities for efficient use of time and material
- Adapting work procedures or priorities in response to changing or unforeseen requirements or conditions

SUPERVISOR:

- Schedule and oversee work of line crews
- Review crew member performance and provide feedback
- Prepare and manage budgets
- Report to management
- Teamwork

- Financial management
- Computer skills for report preparation
- People management



ENERGY INDUSTRY COMPETENCY MODEL



Energy industry careers offer:

- Excellent salaries
- Job growth & stability
- Great benefits
- Opportunities for advancement
- Community service

Where can I find training?

Go to the Get Into Energy web site at www.getintoenergy.com/careers.php and check "Training Programs and Work-Based Training."

Where can I find a job?

Go to the Get Into Energy web site at www.getintoenergy.com/careers.php and check "Featured Employers."