



A Publication for AGA Members

WORKFORCE DEVELOPMENT COMPENDIUM

2019-2020

A List of Training Resources

July 2019

American Gas Association
400 North Capitol St. NW Washington D.C. 20001

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Current Natural Gas Industry Workforce Development Assessment

The 2019 AGA Workforce Training Compendium, compiled by AGA’s Workforce Development Task Group, highlights opportunities offered by community colleges, non-profit associations, and other third parties to prepare candidates for careers in the natural gas industry. This compendium addresses workforce development challenges with a three-pronged approach:

1. **Career Awareness** - helping operators increase their qualified applicant pools from which they may hire.
2. **Employee Training** - providing operators third party resources they may use to train and develop their newer and mid-level employees.
3. **Professional Development** - providing operators third party programs to develop future and current utility leadership.

Natural Gas Industry Workforce Profile and Statistics

Workforce planning is a critical element of strategic planning, both at the corporate and business unit level. Having the right number of employees with the right skills when they are needed is a key component to the viability and profitability of a corporation. The Center for Energy Workforce Development (CEWD)’s most recent survey conducted in 2017, predicts that 25% of utility technicians will retire between 2017 and 2021 (figure 1).

Job Category	Potential Non-Retirement Attrition 2017- 2021		Potential Retirements includes Ready Now 2017- 2021		Potential Retirements 2022 - 2026	
	%	Count	%	Count	%	Count
Lineworkers	15%	11,000	17%	12,000	9%	7,000
Technicians	14%	10,000	25%	18,000	11%	9,000
Plant Operators	13%	5,000	24%	9,000	10%	4,000
Engineers	14%	4,000	21%	6,000	10%	3,000
Total Key Jobs	14%	30,000	21%	34,000	10%	25,000

Figure 1 – CEWD Potential Replacements by 2026 for Key Jobs (Includes Public Power and Excludes Nuclear)

Furthermore, the National Association of State Energy Officials (NASEO) and the Energy Futures Initiative (EFI) administered a survey to over 30,000 employers across 53 different energy technologies and compiled it into the 2019 U.S. Energy & Employment Report (USEER). USEER states that the energy industries employed 6.7 million Americans in 2018. This report detailed that 77% of employers reported having difficulty in hiring qualified workers in the last 12 months. This is an increase of 7% from 2017. The report also states that lack of experience, training, or technical skills was the top reason for hiring difficulties in 2018. The report emphasized the need for expanded investments in workforce training and closer coordination between employers and the workforce training system.

Organization of This Document

AGA's Workforce Development Task Group has assembled this compendium in order to provide a brief summary of available workforce development opportunities as of July 2019. AGA does not recommend or endorse any of the listed institutions or courses. Course descriptions have been provided by the institution noted and have not been authenticated. Contact the institution noted for definite information on the course description and availability.

The document is organized into three sections based on the three previously mentioned areas of workforce development:

1. Natural gas industry career awareness
2. Employee training for newer and mid-level hires
3. Professional development opportunities

Subsequent catalog pages collect six pieces of information. They are explained in the table below:

Information	Description
Category	Resource type or area of usefulness (i.e., corrosion, transmission pipeline operations, community college programs). These categories are sorted alphabetically within the three primary sections of the document.
Organization	Organization(s) offering or sponsoring the resource or training program.
Event/Resource Title	Title of the event/resource.
Description	Overview of the event/resource listed including intended purpose, scope, and benefit.
Date/Location	If applicable, the date scheduled for the resource. Some resources (i.e., online programs, onsite training, etc.) are "on-demand" and therefore may have "ongoing" noted in this section.
Contact	Point of contact name and contact method.
Price	Cost of the event/resource.

This document will be updated annually to reflect changes in available workforce development opportunities. If you believe any changes are appropriate or wish an institution or course to be highlighted in the next update, please contact AGA in writing and sent to: Operations & Engineering Section, American Gas Association, 400 North Capitol Street, NW, 4th Floor, Washington, DC 20001, U.S.A.

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Applicant Pool Augmentation	American Society of Mechanical Engineers	Engineering Opportunities in the Energy Industry	<p>The energy industry is developing new technologies all the time and thrives on innovation. Because of the broad scope and global nature of the industry, engineers who pursue an energy career have a wide variety of locations and job functions to choose from, and the opportunities it presents are some of the most exciting and challenging you will ever find. This course is designed for people who are considering pursuing an engineering career in the energy industry.</p> <p>This self-study course is designed to be taken at your convenience and on your own schedule. You have 90 days to finish the course once you begin from the time of purchase.</p>	Online	<p>U.S./Canada (800) 843-2763</p> <p>Mexico (001) 800-843-2763</p> <p>Outside of North America (973) 882-1170</p>	https://www.asme.org/products/courses/opportunities-in-the-energy-industry	\$95
Applicant Pool Augmentation	Center for Energy Workforce Development Program	Natural Gas Technician Bootcamp	The natural gas boot camp consists of a ten-week program that incorporates the Energy Industry Fundamentals, resume and interviewing skills, and natural gas technician specific skills such as safety, piping, valves, excavation, customer service, and corrosion. The program is an introductory course for individuals who are interested in the natural gas industry, but have limited knowledge of the work. The program is designed to provide students with an understanding of the principles of natural gas, how to use natural gas in a manner that is safe for the public, and the types of tools and equipment used in the industry.	See website for details	Valerie Taylor valerie@cewd.org	http://cewd.org/natural-gas-boot-camp/	\$700
Applicant Pool Augmentation	Center for Energy Workforce Development Program	State Energy Workforce Consortia	Consortia are strategic partnerships between the energy industry, education, workforce systems, and others who work together to define a state's or region's talent needs and develop solutions to meet those needs. Consortia are active in approximately 30 states across the country, and other states are in the process of forming them.	See website for details	Valerie Taylor valerie@cewd.org	https://cewd.org/state-consortia-resources/	
Applicant Pool Augmentation	Center for Energy Workforce Development Program	National Energy Education Network Program (NEEN)	The National Energy Education Network (NEEN) is an assembled group of educators that work with CEWD member companies to enable their energy talent pipeline solution. NEEN members are granted membership based on CEWD utility member sponsorship and have full access to CEWD content	See website for details	Valerie Taylor valerie@cewd.org	https://cewd.org/neen/	
Applicant Pool Augmentation	Center for Energy Workforce Development Program	Veterans-only Career Information Day Toolkit	The Veterans-Only Career Information Day is a one-day event held at National Grid to attract more veterans to the energy industry and more specifically to their company. The purpose of the day is to introduce the veterans to the energy industry, provide them with a tour and to help them understand the different types of jobs that are available in their company.	See website for details	Rosa Schmidt rosa@cewd.org	https://cewd.org/toolkit-veterans/	
Applicant Pool Augmentation	Center for Energy Workforce Development Program	SkillsUSA Career Expo Toolkit	A way to get the word out about energy jobs is to get involved in the SkillsUSA competition in your state. The Georgia Energy and Industrial Construction Consortium have hosted an energy and construction career expo. They have donated several items that will help your energy company to get the planning started.	See website for details	Valerie Taylor valerie@cewd.org	https://cewd.org/skillsusa-toolkit/	
Applicant Pool Augmentation	Center for Energy Workforce Development Program	Women in Sustainable Employment (WISE) Pathways Career Exploration Workshop	WISE Pathways is a 40-hour course is designed for women to explore non-traditional, in-demand careers in the construction and energy industries. In addition to exploring the knowledge and skill sets desired in these industries, women will have the opportunity to learn industry-specific skills strategies in conflict management, team building, and workplace expectations. They will also create a resume, practice online applications and interviewing, and work with companies in the job search process.	See website for details	Valerie Taylor valerie@cewd.org	https://www.hhwOhio.org/programs/wise-pathways/ http://cewd.org/wise-pathways/	

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Applicant Pool Augmentation	Center for Energy Workforce Development Program	Troops to Energy Jobs National Template	The Troops to Energy Jobs National Template is intended to be used as a guide for energy companies in developing a comprehensive initiative for military outreach, education, recruiting, and retention.	Online	Rosa Schmidt rosa@cewd.org	http://www.troopstoenergyjobs.com/ http://cewd.org/documents/TroopsNationalTemplate-rev2017.pdf	
Applicant Pool Augmentation	Center for Energy Workforce Development Program	Troops to Energy Jobs Work Ready Bootcamp	The Troops to Energy Jobs Work Ready Bootcamp program is designed to help those who have recently left the military make a smooth transition to the civilian work world, with the goal of them gaining employment in the energy industry.	See website for details	Rosa Schmidt rosa@cewd.org	http://cewd.org/documents/wizard/documents/Build3-WorkReadyBootcamp.pdf	
Applicant Pool Augmentation	Center for Energy Workforce Development Program	Energy Fundamentals Certificate Program	The purpose of the Energy Industry Fundamentals Certificate is to ensure that potential workers gain an understanding of the energy industry as a prerequisite to occupation-specific training. It also helps them to gain an understanding of the careers available in the energy industry, as well as the education and training to enter and advance in those careers.	See website for details	Julie Strzempko julie@cewd.org	http://www.cewd.org/curriculum/about-the-ef-certificate.php	
Applicant Pool Augmentation	Helmets to Hardhats	Military Career to Construction Job Transitional Program	Helmets to Hardhats is a national, nonprofit program that connects National Guard, Reserve, retired and transitioning active-duty military service members with skilled training and quality career opportunities in the construction industry. The program is designed to help military service members successfully transition back into civilian life by offering them the means to secure a quality career in the construction industry.	See website for details	(866) 741-6210	https://helmetstohardhats.org/about-us/	
Applicant Pool Augmentation	Helmets to Hardhats	Wounded Warrior Positions	Helmets to Hardhats recognizes the supreme sacrifice that our Veterans have made for this country. The Wounded Warrior program supports disabled Veterans by providing the tools, information and community that will help Veterans gain careers in the Building and Construction Trades. Disabled Veterans may apply for and demonstrate their ability to perform any job listed on the Helmets to Hardhats website. However, the Wounded Warrior program lists construction careers that employers have specifically identified as potentially suitable for disabled veterans	Online	(866) 741-6210	https://helmetstohardhats.org/military-service-members/resources/wounded-warrior/ https://www.woundedwarriorproject.org/	
Applicant Pool Augmentation	Helmets to Hardhats	Veterans in Piping	The Veterans in Piping (VIP) program offers high-quality skills training and jobs in the pipe trades to US veterans and active duty military personnel preparing to leave the service. Participants enroll in accelerated 18-week courses in welding and/or HVACR service, both fields experiencing an increased demand for skilled workers. They also earn industry-recognized certifications as a part of their education. Upon graduation, VIPs gain direct entry into UA apprenticeship, leading to lifelong career opportunities. All training is paid for entirely by the UA and its industry partners at NO cost to participants.	See website for details	(866) 741-6210	https://helmetstohardhats.org/military-service-members/resources/veterans-in-piping/ https://www.uavip.org/	

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Applicant Pool Augmentation	South Jersey Gas	Operator Technician Training Program	<p>Graduates of the Operator Technician program will be qualified to perform a variety of gas pipeline construction activities. The goal of this program is to “build a pipeline of qualified applicants for construction type positions in the natural gas industry.”</p> <p>South Jersey Gas, in partnership with Atlantic Cape, Cumberland, Gloucester, and Salem County Community Colleges, is offering an Operator Technician training program to the public that could lead to a career in the natural gas industry. Each County’s Workforce Investment Boards are also supporting the program.</p>	See website for details	(888) 766-9900	https://www.sjindustries.com/careers/training-and-development	
Applicant Screening Resources	Center for Energy Workforce Development Program	GIE Test Prep Program	Get Into Energy Test Prep is a structured instructor-led program that provides candidates the opportunity to not only learn more about pre-employment testing, but to experience it firsthand. Candidates are exposed to the types of problems they will encounter in real-life testing situations, including being timed while taking practice tests. They also learn strategies for solving the types of questions they will encounter on the EEI CAST, MASS, and POSS tests.	Online	Valerie Taylor valerie@cewd.org	http://cewd.org/gie-test-prep/	
Applicant Screening Resources	Center for Energy Workforce Development Program	Contextualized Math Guides	The contextualized math guides pair real world work scenarios with basic math concepts. The selected topics are those that are covered on pre-employment test in the energy industry. The online modules don't provide direction on how to teach the concepts--only word problems that use concepts. All of the questions in the online modules are presented in the context of specific occupations so students not only learn better, but they gain awareness of careers in the energy industry.	Online	Valerie Taylor valerie@cewd.org	http://cewd.org/curriculum/contextualized-math.php	
Applicant Screening Resources	Center for Energy Workforce Development Program	Employability Skills Workshop	The awareness about the importance of employability skills, including workplace behaviors, is growing. This Employability Skills toolkit provides materials for an energy company to host a one-day interactive workshop on this topic. There are exercises and case studies specific to situations in a utility, providing participants the opportunity to experience first-hand what is expected of future employees.	Online	Valerie Taylor valerie@cewd.org	http://cewd.org/employability-skills-toolkit/	
Career Mentoring Tools	Center for Energy Workforce Development Program	Energy Careers Roadmaps	The Get Into Energy Career Pathways Roadmap provides a career pathway and detailed information for each of the energy positions.	Online	Valerie Taylor valerie@cewd.org	http://www.cewd.org/roadmap/	
Career Mentoring Tools	Center for Energy Workforce Development Program	Energy Industry Competency Model	The Competency Model consists of stacked tiers increasing in specificity and specialization as the pyramid ascends. Each tier is divided into blocks representing content or the skills, knowledge, abilities and other factors that are essential to successful performance in the industry.	Online	Valerie Taylor valerie@cewd.org	https://www.cewd.org/curriculum/downloads/Energy%20Competency%20Model%20September%202010.pdf	

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Career Mentoring Tools	Center for Energy Workforce Development Program	Toolkit for Mentoring High School Youth	The Center for Energy Workforce Development (CEWD) and SkillsUSA have developed this extensive toolkit in an effort to support the “grow your own” concept for filling the energy careers pipeline. Students who are part of the SkillsUSA competitions, specifically within the Architecture & Construction, Manufacturing, and STEM career clusters, already have an interest in careers that may be available within an energy company. The fact that the shortage of energy workers is expected to reach nearly 50% over the next five years means that now is the time to put a mentoring program in place! An energy company/SkillsUSA mentoring partnership at a local level is a win-win proposition for both energy companies and SkillsUSA students.	Online	Valerie Taylor valerie@cewd.org	https://cewd.org/toolkit-mentor/	
Career Mentoring Tools	Center for Energy Workforce Development Program	Internships & Coops Toolkit	The purpose of the Internship and Co-ops toolkit is to provide the tools to enable members to launch a new internship program or improve upon one already in place. This toolkit can be used for high school, community college or four-year college students.	Online	Valerie Taylor valerie@cewd.org	https://cewd.org/internship-toolkit/	
Career Mentoring Tools	Center for Energy Workforce Development Program	"I Got Into Energy" Campaign	The “I Got Into Energy” Campaign is a fun way to reinforce CEWD’s “Get Into Energy” brand, which is designed to appeal to potential jobseekers and help them explore what it means to work in the energy industry.	See website for details	Valerie Taylor valerie@cewd.org	https://cewd.org/i-got-into-energy/	
Career Mentoring Tools	Center for Energy Workforce Development Program	Diversity & Inclusion Print Materials and National Template	CEWD has released a Diversity & Inclusion National Template. This interactive site is based on the Making the Connection to a Diverse, Qualified Workforce Assessment Tool and Playbook and links to a variety of tools, templates and resources.	Online	Valerie Taylor valerie@cewd.org	https://cewd.org/diversity-inclusion-national-template/	
College Talent Development Programs	Alamo Colleges	Energy Technology	<p>The Energy Technology program offers students the option to enroll in the fast track certification program and/or earn an Associate of Applied Science. The program is designed to accommodate the need for multi-skilled workers with foundations in electronics, hydraulics, and mechanics. Graduates of the program will acquire the necessary skills to begin a career in the Oil and Gas industry, in particular the Eagle Ford Shale Region.</p> <p>Palo Alto College also offers specialized job-training to support the oil and gas industry:</p> <ul style="list-style-type: none"> - Automated Manufacturing - Environmental Occupational Health and Safety - Programmable Logic Control (PLC) - Multi-skilled Industrial Troubleshooting Technician - Oil and Gas Technician - Process Control - CCE Certificate - Electrical Technician Helper - Pipe Welding and Layout Certifications - Safety Awareness Certificates (PEC Approved Training Site) - Shipping Hazardous Materials Certificate 	<p>Face-to-face San Antonio, TX</p> <p>Online</p>	<p>Dolores Zapata-Caballero (210) 486-3935</p> <p>Dr. Ronald Brown (210) 486-3330</p> <p>Palo Alto College (210) 486-3000</p>	https://www.alamo.edu/pac/academics/search-programs/professional-and-technical/energy-technology/	

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College Talent Development Programs	Barton Community College	Natural Gas Transmission and Distribution - Gas Measurement Technician Certificate Program	<p>A degree from Barton Community College gives the individual the skills necessary for employment with minimal "on the job training" by the company. Technicians are needed for corrosion control, gas measurement, instrumentation and electrical controls, pipeline construction, and programmable logic controller (PLC) programming</p> <p>The 30-credit hour Gas Measurement Technician certificate utilizes curriculum that is owned and maintained by the Gas Measurement Training Council of the Southern Gas Association and focuses on in depth measurement and instrumentation technologies. A mobile training trailer provides Gas Measurements students with relevant hands-on training on equipment that is currently used in the field.</p>	Great Bend, KS	Mary Foley foleym@bartonccc.edu (620) 792-9278	https://www.bartonccc.edu/careerprograms/gasmeasurement	
College Talent Development Programs	Barton Community College	Natural Gas Transmission and Distribution - Gas Pipeline Technician Program	<p>A degree from Barton Community College gives the individual the skills necessary for employment with minimal "on the job training" by the company. Technicians are needed for corrosion control, gas measurement, instrumentation and electrical controls, pipeline construction, and programmable logic controller (PLC) programming</p> <p>The Gas Pipeline Tech program provides training in comprehensive gas industry technologies recommended by regional gas pipeline companies. A 33-credit hour certificate and a 64-credit Associate of Applied Science degree are available.</p>	Great Bend, KS	Mary Foley foleym@bartonccc.edu (620) 792-9278	https://www.bartonccc.edu/careerprograms/naturalgas	
College Talent Development Programs	Lackawanna College	Petroleum and Natural Gas Technician Certificate	<p>The Petroleum & Natural Gas Technician Certificate is specifically designed to offer industry-based education and training to students who already possess a bachelor's degree in business or a related technical field and desire quick entry into the gas industry.</p> <p>Through a combination of Summer and Winter Session Courses in addition to a traditional Fall semester, students pursuing this new certificate program should graduate in less than one year.</p>	New Milford, PA	(877) 346-3552 Richard Marquardt marquardtr@lackawanna.edu Jeannine McKnight mcknightj@lackawanna.edu	https://www.lackawanna.edu/academics/school-of-petroleum-and-natural-gas/png-technician-certificate/	\$9,995
College Talent Development Programs	Lackawanna College	Petroleum and Natural Gas Business Administration Degree	<p>The Petroleum & Natural Gas Business Administration degree provides students with a broad background in business concepts as they relate to the petroleum and natural gas industry. Students will be exposed to oil & gas drilling, production, handling, processing, and safety concepts while studying core business disciplines. The program is recommended for students preparing for an administrative, accounting, marketing, or financial position with an oil & gas company.</p>	New Milford, PA	(877) 346-3552 Richard Marquardt marquardtr@lackawanna.edu Jeannine McKnight mcknightj@lackawanna.edu	https://www.lackawanna.edu/academics/school-of-petroleum-and-natural-gas/petroleum-and-natural-gas-business-administration/?via=degreesidebarredirect	

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
College Talent Development Programs	Lackawanna College	Petroleum and Natural Gas Technology	<p>Students who obtain an associate degree in Petroleum & Natural Gas Technology will be qualified for positions focused mainly on the production of petroleum and natural gas. They may find themselves as lease operators, field technicians, or operations techs in a midstream environment.</p> <p>Employees in those positions will act as problem solvers who will maintain facilities, equipment, instrumentation, and operations to ensure the optimum production and delivery of petroleum and natural gas; troubleshoot obstacles that may prohibit the maximum efficiency of the system; and operate within the safety standards that are agreed upon across the industry.</p>	<p>Face-to-face: New Milford, PA</p> <p>Online</p>	<p>(877) 346-3552</p> <p>Richard Marquardt marquardtr@lackawanna.edu</p> <p>Jeannine McKnight mcknightj@lackawanna.edu</p>	<p>https://www.lackawanna.edu/academics/school-of-petroleum-and-natural-gas/natural-gas-compression/?via=degreesidebarredirect</p>	
College Talent Development Programs	Marshalltown Community College	Utility Technician Program	<p>The Utility Technician field employs people involved with the generation, distribution or use of electrical or gas utilities. These workers need a mechanical aptitude along with knowledge of mathematics, computers, electronic equipment, and map and schematic reading. There are job opportunities in Iowa and in virtually all parts of the country. No matter where you'd like to live, there will be jobs available in this field. Some technicians are also drawn to employers who allow them to travel across the country, particularly in response to natural disasters. It can be a great way to see the country and meet new people, with your employer paying the expenses!</p> <p>MCC's Utility Technician Programs: - One-year Utility Technical Diploma - Two-year Natural Gas Technical Associate of Applied Science Degree - Two-year Powerline Technical Associate of Applied Science</p> <p>MCC Certificate Trainings: - Natural Gas Basics Certificate - Natural Gas Advanced Fundamentals Certificate - Natural Gas Construction Certificate - Natural Gas Customer Service Certificate - Powerline Basics Certificate - Powerline Advanced Skills Certificate - Powerline Construction Certificate - Powerline Troubleshooting Certificate</p>	Marshalltown, Iowa	<p>Lara Thoms Lara.Thoms@iavalley.edu (641) 844-5758</p> <p>mccinfo@iavalley.edu (641) 752-7106 1 (866) 622-4748</p>	<p>https://mcc.iavalley.edu/academic/skilled-trades/utility-technician/</p>	
College Talent Development Programs	Minnesota State Community and Technical College	Gas Utility Construction and Service Program	<p>The Gas Utility Construction and Service program prepares students to install, maintain and operate both high- and low-pressure natural gas distribution systems that are 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.</p>	Wadena, MN	<p>Randy Baker (218) 631-7833</p> <p>Support Center (877) 450-3322</p>	<p>https://www.minnesota.edu/degrees/215</p>	

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
College Talent Development Programs	Northeast Wisconsin Technical College	Gas Utility Construction and Service Technical Diploma Program	Highly skilled professionals in the utilities industry are needed to install, maintain, and operate natural and propane gas distribution systems used to supply residential, commercial, and industrial customers. Typical careers in this field include gas distribution worker, gas service person, gas meter and regulation mechanic, gas clerk-estimator, gas inspector, gas appliance repair mechanic, underground facilities locator, pipeline welder, pipe layer, and equipment operator.	See website for summer 2020 dates Green Bay, WI	Cindy Dahlman cindy.dahlman@nwtc.edu (920) 498-5466 Academic Advisors (920) 498-5444 (888) 385-6982	https://www.nwtc.edu/programs/fi-elds-of-interest/energy/maintenance-and-operations/gas-utility-construction-and-service	
College Talent Development Programs	Pacific Gas & Electric	PG&E PowerPathway™ Programs	Launched in 2008, PowerPathway is a nationally-recognized workforce development model to enlarge the talent pool of local, qualified, diverse candidates for skilled craft and utility industry jobs through training program partnerships with educational, community-based and government organizations. PowerPathway helps people throughout the PG&E service territory, including women and military veterans, prepare and compete for high demand jobs in the utility and energy industry. Students receive approximately 8 weeks (320 hours) of industry-informed curriculum to ensure the academic, job specific, employability skills and physical training necessary to effectively compete for entry-level employment. Programs may also include hands-on training and On the Job Training as well.	See website for details		https://careers.pge.com/content/TD-Overview/?locale=en_US	
College Talent Development Programs	San Juan College	Industrial Process Operator Program	The Industrial Process Operators Program (IPOP) is designed to prepare students for entry level positions as entry level operators of power plants, natural gas processing, refineries, mining, semiconductor, pharmaceutical and many more processes. With more than \$1.2 M worth of process equipment, the hands-on approach of the Industrial Process Operator Program helps students learn both the theoretical and practical aspects of process operations and are well-prepared for entry-level positions in various industries. Many of our former students work at power plants and gas processing facilities.	Farmington, NM	Todd Doyle doylet@sanjuancollege.edu (505) 566-3881	http://www.sanjuancollege.edu/school-of-energy/programs/industrial-process-operator/	
College Talent Development Programs	San Juan College	Industrial Maintenance Mechanic Program	The Industrial Maintenance Mechanic program prepares students for entry-level positions as maintenance mechanics for power generation, mining, natural gas, refinery, water treatment, semiconductor, petrochemical, and pharmaceutical processes.	Farmington, NM	Georgia Cortez (505) 566-3890	http://www.sanjuancollege.edu/school-of-energy/programs/industrial-maintenance-mechanic/	

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
College Talent Development Programs	Seward County Community College/Area Technical School	Natural Gas Compression Technology	<p>The natural gas compression technology program offered by Seward County Community College prepares students for entrance into the natural gas industry as entry level maintenance technicians. Through cooperation with regional natural gas industry leaders, SCCC is able to provide students with the most up-to-date training required by this dynamic industry.</p> <p>Students in the natural gas compression technology program learn precision measurement, workplace skills, engine theory, basic electricity and circuits, metal fabrication, basic welding, repairing compressors and engines, compressor theory, mounting and aligning compressors, and preventative maintenance of engines and compressors. Our students participate in an internship at the end of their program of study to prepare them for the workforce and give them experience working with a company in the industry.</p>	Liberal, KS	<p>Dave Ratzlaff dave.ratzlaff@sccc.edu</p> <p>(800) 373-9951 (620) 624-1951</p>	<p>https://www.sccc.edu/web/academic/divisions/industrial-natural-gas-compression</p>	
Education Outreach	Center for Energy Workforce Development Program	Green Energy Summer Camp Toolkit	<p>This toolkit will help your energy company to host a Green Energy Summer Camp for middle and/or high school students. This camp is designed to be one-week in length with hands-on science and math activities, a company tour, and the opportunity to talk to your employees about their jobs. The goals for the camp are to learn about green energy, get excited about what happens at energy companies, and find out about available careers.</p>	Online	<p>Valerie Taylor valerie@cewd.org</p>	<p>http://www.cewd.org/documents/MemberSummary.pdf</p>	
Education Outreach	Center for Energy Workforce Development Program	Middle and High School Girls Women in the trades Career Fair	<p>A middle and high school girls Women in Trades Career Fair is a one-day event designed to educate and inspire girls to explore career options in the trades. These careers include non-traditional energy jobs (ones where women comprise 25 percent or less of total employment), such as technicians and welders, but also expand to other trades in construction, manufacturing, and transportation. The Career Fair is based on a successful model used by the Oregon Tradeswomen in Portland, Oregon for the past 20 years.</p>	Online	<p>Valerie Taylor valerie@cewd.org</p>	<p>http://www.cewd.org/documents/CEWD-BestPracticesGuide-FNL.pdf</p>	
Education Outreach	Center for Energy Workforce Development Program	Get into Energy Pathways Assessment Tool for Employers	<p>This quick assessment can help companies gauge where there are gaps and opportunities for each of the five action areas. The results can be helpful as part of a larger Strategic Workforce Planning effort to identify goals and initiatives to increase the effectiveness of your company's efforts to build a diverse, qualified workforce.</p>	Online	<p>Valerie Taylor valerie@cewd.org</p>	<p>http://cewd.org/documents/GetIntoEnergy-CareerPathwaysAssessmentTool.pdf</p>	
Education Outreach	Center for Energy Workforce Development Program	Scholarships toolkit	<p>Looking for another way to market your company to future applicants while also helping to entice students to pursue a career in energy? Why not sponsor a scholarship fund? This toolkit outlines all you need to know about how to establish and market a scholarship program, including everything from an initial task list to information about pertinent IRS rules and other laws and even a sample application form</p>	Online	<p>Valerie Taylor valerie@cewd.org</p>	<p>https://cewd.org/scholarship-toolkit/</p>	
General	Center for Energy Workforce Development Program	CEWD Annual Summit	<p>The Summit focuses on providing its members with workable solutions that align with each of the four strategic pillars: Career Awareness, Workforce Development and Education, Workforce Planning, and Structure and Support. At each Summit, members learn about the wealth of toolkits, resources, and best practice available at their fingertips.</p>	November 12-13 2019 Arlington, VA	<p>staff@cewd.org</p>	<p>https://cewd.org/events/</p>	
General	Center for Energy Workforce Development Program	Gaps in the Energy Workforce Pipeline Member Survey	<p>In 2017, CEWD conducted the seventh "Gaps in the Energy Workforce Pipeline" survey. The findings are based on responses from Electric and Natural Gas Utilities across the United States. The survey results continue to show progress in building a talent pipeline to fill critical jobs in the industry.</p>	Online	<p>Valerie Taylor valerie@cewd.org</p>	<p>http://cewd.org/documents/surveyreport/2017CEWDSurveySummary-FNL.pdf</p>	

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
General	Center for Energy Workforce Development Program	Demand Reports	This report is designed to exhibit data on the present and future demand for specific energy occupations within private sector electric and natural gas utility industries for all CEWD regions in the United States. The goal of this report is to provide stakeholders with critical information on energy workforce characteristics, which can be used for planning efforts and as a benchmark for future studies on the region, as well as a comparison against other regions.	Online	staff@cewd.org	http://www.cewd.org/documents/Workforce/DemandReports2017/CEWD2017EnergyWorkforceDemandNation.pdf	
General	Center for Energy Workforce Development Program	Regional Meetings	The purpose of the meeting is for educators, industry and government representatives to discuss workforce development issues and concerns and to share solutions to these issues. The meeting is geared toward human resources, technical training, operations, community relations, workforce planning and workforce development professionals.	See website for 2020 dates	staff@cewd.org	https://cewd.org/events/	
General	Center for Energy Workforce Development Program	Monthly Newsletter	A monthly update from CEWD	Online	staff@cewd.org	https://netforum.avectra.com/eWeb/DynamicPage.aspx?Site=cewd&WebCode=Verify	
General	Center for Energy Workforce Development Program	Talent Management	Energy companies face core challenges to recruit, retain, develop and train their workforce. With changing demographics and a need to identify and develop talent from within, successful organizations are careful to invest in proven development programs for individual contributors and managers. This forum brings together employee development and training experts to share case studies and proven best practices.	September 10-11, 2019 Las Vegas, NV	Amy Nye nye@westernenergy.org (503) 688-2794	https://www.westernenergy.org/programs/talent-management/	Member: \$449

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Compliance	Gas Technology Institute	Regulatory Audits	This module focuses on the development and implementation of an internal audit program and required follow-up to assist with regulatory compliance. It covers the characteristics of federal and state regulatory inspections and how to prepare for a pipeline safety inspection. Included are Quality Assurance/Quality Control programs and an understanding of the political environment that impacts regulation. Trainees learn how to respond to a Notice of Probable Violation.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Compliance	Gas Technology Institute	Recognize and React to Abnormal Operating Conditions	This module defines abnormal operating conditions and presents examples of the effect they have on work-related covered tasks. The trainee will learn how to recognize and react to various abnormal operating conditions they may encounter while performing field tasks.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Compliance	Gas Technology Institute	Investigate and Report an Incident	This module focuses on the regulatory and reporting requirements for incident investigation. Response protocol, explosion attributes, and application of a root analysis approach are included. The major causes of leaks are described. The module features a brief video of a gas explosion.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Compliance	Gas Technology Institute	Pipeline Safety Regulatory Compliance Course	In recent years, we've seen an unprecedented level of pipeline safety regulatory compliance activity: Transmission Integrity Management (TIMP), Distribution Integrity Management (DIMP), and Control Room Management (CRM). Add new incident and annual reporting requirements, and it's hard to keep track of it all. During the four and a half-day workshop, get an understanding of these and any upcoming regulations through engaging presentations and hands-on exercises. Find out what's required for the design, construction, operation, and maintenance of all natural gas pipelines—interstate, intrastate, and distribution.	Registration Deadline: July, 19, 2019 (8:00 AM) Jul 22-26, 2019 Rosemont, IL	Joe Carlstrom Joe. Carlstrom@gastechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/classroom-training/	\$2,450
Compliance	Midwest Energy Association	192 Natural Gas - EnergyU Course Library	Use to qualify personnel for Operator Qualification requirements under CFR part 192. For gas operations personnel and contractors working on natural gas distribution, transmission, and gas gathering systems. Includes: - 72 training courses and assessments - 115 performance evaluation forms	Online	Amarachi Joseph (651) 289-9601 mea@midwestenergy.org (651) 289-9600	https://www.meenergy.org/learning/energyu/libraries/192lib/	
Compliance	Midwest Energy Association	American Society of Mechanical Engineers (ASME) B31Q - EnergyU Course Library	For natural gas and liquids operations personnel and contractors working on pipelines. This library directly relates to the ASME B31Q standard for qualification of personnel, published by ASME. Includes: - 144 courses and assessments - 144 performance evaluation forms	Online	Amarachi Joseph (651) 289-9601 mea@midwestenergy.org (651) 289-9600	https://www.meenergy.org/learning/energyu/libraries/asme/	
Compliance	Northeast Gas Association	Plastic Pipe Joining Qualification Program	The Northeast Gas Association's (NGA) Pipe Joining Qualification Program was developed through a joint effort of personnel from Local Distribution Companies (LDCs), contractors and manufacturers with input from State Pipeline Safety Officials. U.S. Department of Transportation (DOT) regulation 192.285 requires pipeline operators to qualify company and contractor personnel involved in the joining of polyethylene (PE) pipe. Personnel must be qualified annually in handling, preparing and joining PE pipe through mechanical, heat fusion and/or electrofusion processes.	See website for details	Darcy Flynn (781) 455-6800 oq@northeastgas.org	https://www.northeastgas.org/tq-PIPEJOINQUAL.PHP	LDC's: \$1100 per class Members: \$1600 per class Non-Members: \$3000 per class

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Compliance	Northeast Gas Association	Operator Qualification Program	The Northeast Gas Association (NGA) administers a comprehensive Operator Qualification (OQ) Program. OQ is a regulation of the Office of Pipeline Safety of the U.S. Department of Transportation (DOT). DOT's Operator Qualification (OQ) regulation 49 CFR 192 subpart N, requires operators to develop and maintain a qualification program for individuals performing covered tasks. The intent of the OQ rule is to minimize human error by establishing a verifiable and qualified workforce.	See website for details	Darcy Flynn (781) 455-6800 oq@northeastgas.org	https://www.northeastgas.org/tql-operator.php	
Compliance	Northeast Gas Association	Welding Qualification Program	NGA's Welding Qualification Program was released to the industry in the spring of 2003. The Program is modeled after the successful NGA Pipe Joining Qualification Program. The Program was developed through a joint effort of personnel from LDCs, contractors and welding test agencies, and included input from state safety officials. It establishes a regional approach for meeting the requirements of DOT's welder qualification regulations. The Program offers distribution companies the opportunity to satisfy regulatory requirements in a more efficient and effective manner. For contractors, it eliminates the need for multiple qualifications leading to reduced down time and cost.	See website for details	Jeff Klezos jklezos@northeastgas.org (781) 455-6800 ext. 118	https://www.northeastgas.org/welding_qual.php	
Compliance	Southern Gas Association	DOT Compliance Workshop for Natural Gas Pipeline Operators	This workshop provides attendees an opportunity to learn from subject matter experts in the industry with the instructors, but also allows them the opportunity to network with one another and develop connections to reach out to upon your return to your office. This workshop will guide attendees through the code and focus on the regulations that have been found to be highly debated sections of the code for operators. Some time will also be spent reviewing and understanding how to access and read the code interpretations that are publicly available for all to access.	See website for 2020 dates Plano, TX	Gary Hines ghines@southerngas.org	https://southerngas.org/	
Construction	American Society of Mechanical Engineer	EL515 - Principles of Welding	This course provides an introduction to the principles of welding technology. The course describes the process of welding and how it affects welded materials and structures. It describes the electric circuits that are used to generate welding arcs, material properties, and the metallurgical and dimensional effects of welding on structures. The course also provides an overview of weld design concepts including efficient weld sizing and communication of weld and welding information through weld symbols on drawings.	Online See website for dates		https://www.asme.org/products/courses/principles-of-welding-(2)	
Construction	Gas Technology Institute	Perform Construction Practices	This module presents various aspects of pipeline construction activities, from survey and route selection through restoration cleanup. Right-of-way and permitting; site preparation; material handling; pipeline marking and patrolling; and miscellaneous construction considerations are explained. The module concludes with a section on recognizing and responding to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Perform Horizontal Directional Drilling	This module introduces the underground method of pipe installation, including cautionary considerations. A video and an animation are included to show the process and emphasize safety-related issues. Trainees are asked to consider how to respond to an abnormal operating condition.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95

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Construction	Gas Technology Institute	Attach a Wire Using a Thermite Weld	This module explains the purpose of the thermite welding process and the equipment required. Trainees learn to perform the thermite welding procedure. Precautions and procedural steps are covered for typical installations (for example, anode wire connection), and the thermite procedure as performed in keyhole excavations is described. Trainees learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Inspect Condition of Pipe	This module covers two areas of pipe inspection: Exposed pipe and new piping prior to installation. Assessing the condition of pipe is very important to the safe operation of the pipeline system. The task of inspecting buried pipe, once exposed, involves visual examination to determine corrosion and the evaluation of coating integrity. Prior to installation, it is important to identify and assess piping for defects and damage that could result in problems in the future. Trainees learn about these activities and how to recognize and respond to abnormal conditions	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Install Steel Pipe	This module describes the procedures for proper handling, inspection, and installation of steel pipe. Trainees learn field bending methods and the regulatory requirements for steel pipe installation. Specific topics include stringing pipe, trench padding, and backfilling. Also covered is recognizing and responding to abnormal conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Install Polyethylene (PE) Pipe	This module covers the requirements for storing, handling, inspecting, and installing polyethylene pipe, including installation methods for both direct burial and insertion of polyethylene pipe. Trainees learn the differences between these methods and the regulatory requirements for proper installation of PE pipe. They also learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Install Tracer Wire	This module covers the installation and connection of tracer wire for the purpose of locating polyethylene pipe that is installed by direct burial. Continuity testing protocol is included to ensure the signal integrity of the tracer wire installation. Trainees learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Join Polyethylene Pipe: Stab Fittings	This module describes the procedure for joining polyethylene pipe with stab fittings, with examples by two manufacturers: Continental and Perfection. The module includes two videos to demonstrate the installation procedural steps. Trainees learn to perform the joining procedure based on the manufacturer's installation requirements and to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Join Pipe: Compression Couplings	This module focuses on the procedure for joining polyethylene, steel, and cast iron pipe with various types of compression fittings. Joining includes bottom-out and non-bottom-out fittings. (Dresser and Perfection are the manufacturers highlighted.) Trainees learn the why, how, and when of using compression fittings.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Join Polyethylene Pipe: Butt Heat Fusion - Manual Unit	This module covers joining of polyethylene pipe by butt heat fusion using mechanical fusion units (#14 and #2LC manual fusion units). It describes how to recognize and respond to abnormal conditions while performing this task	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Join Polyethylene Pipe: Butt Heat Fusion - Hydraulic Unit	This module covers joining of polyethylene pipe by butt heat fusion using a #28 hydraulic fusion unit. It includes shift sequence and setting drag pressure - essential components of hydraulic unit operation. Brief animations help to demonstrate unit operation.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95

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Construction	Gas Technology Institute	Join Polyethylene Pipe: Sidewall Heat Fusion	This module focuses on heat fusion, specific to installing tapping tees and branch saddle fittings on polyethylene pipe (saddle/sidewall procedure). Procedures involve the McElroy Sidewinder Unit. The module includes a brief animation clip on the process, and identifies visual acceptability of the fusion joints.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Join Polyethylene Pipe: Electrofusion	This module covers the joining of polyethylene pipe by the electrofusion process. Included are the bar code and self-regulating procedures, along with a brief section on visual acceptability. An animation clip and video assist in demonstrating the best practice procedure for the electrofusion bar code method. Possible abnormal operating conditions are explored.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Join Polyethylene Pipe: Socket Heat Fusion	This module focuses on the equipment and procedure required to perform socket heat fusion. Although the process is not used too often in the industry, some companies still maintain it as a joining method for polyethylene gas services. The module covers pipe preparation, fusion in an explosive atmosphere, heating, and the importance of accurate visual inspection. Possible abnormal operating conditions are explored.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Inspect a Polyethylene Pipe Fusion Joint	This module identifies the requirements for visually inspecting and evaluating polyethylene heat fusion and electrofusion joints. Trainees learn the difference between acceptable and unacceptable fusion though visual inspection with the aid of the module's pictorial examples of acceptable and unacceptable fusion joints. The module also covers thermal expansion and contraction and possible abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Weld Steel Pipe	This module focuses on the safety- and procedural-related issues that welders may encounter on a job. Various welding processes and procedures are discussed; they are not a substitute for on-the-job-training. Regulatory requirements, fire hazards, protective equipment, excavation safety, and types of defects are among the topics covered.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Conduct a Pressure Test	This module covers pressure testing requirements for new and replaced pipeline mains and services. Performing pressure testing correctly and safely is emphasized. Hydrostatic testing and documentation requirements are also covered.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Abandon a Pipeline Facility	This module explains how to safely and effectively deactivate and/or abandon main and service pipes in accordance with regulatory requirements including the difference between service abandonment and service deactivation.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Install a Meter and Regulator	This module covers the general requirements for location, protection considerations, and installation of meters and regulators. The code requirements for inside and outside installation are explained for the meter, meter sets, and regulator venting. Trainees learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Construction	Gas Technology Institute	Test Customer Piping	This module focuses on the proper testing requirements for new and existing customer house piping. It includes identifying the testing methods performed for existing and new customer house piping and understanding what actions to take if a leak is found. Trainees learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95

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Construction	National Association of Corrosion Engineers	Pipeline Coating Applicator Training	The Pipeline Coating Applicator 5 day course covers the proper coating application procedures including understanding specifications, surface preparation, application techniques, dealing with changing ambient conditions, and quality control measures, for the most common coating materials to which contractors and inspectors are exposed to on pipeline projects.	See website for details	(281) 228-6200	https://www.nace.org/cstm/Education/Courses/CourseSchedule.aspx?coursecode=PIPELINECA	
Construction	Northeast Iowa Community College	Gas Utility Construction and Service 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 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.	Fergus Falls, MN	info@minnesota.edu (877) 450-3322	http://www.minnstate.edu/college-search/public/institution/programProfile?rcld=0142&proglid=180000010	
Construction	Western Energy Institute	Procurement Management	Successful supply chain management relies on a well-developed infrastructure, appropriate tactical resources, and thorough analysis. This process is multifaceted and involves solid relationships within the utility, as well as strategic relationships with vendors to mitigate risk to the overall supply chain. This forum offers an opportunity for supply chain procurement managers and specialists to come together with their industry partners and suppliers for roundtable discussions and expert presentations. Topics include KPIs, supplier relationship management, sustainability, and best practices in purchasing and contracting. CEHs are offered for CPSMs through the Institute for Supply Management.	September 25-27, 2019 Calgary, AB	Christopher Lee lee@westernenergy.org (971) 255-4967	https://www.westernenergy.org/programs/procurement-management/	Member: \$699 Non-member: \$1,299
Construction	Western Energy Institute	Supply Chain Strategies	Supply chains are increasingly complex and challenging to manage, yet are essential for maintaining compliance, incident preparedness and major project timelines. Focusing on the role of the utility supply chain executive, this forum provides an exclusive environment for leaders with the comprehensive supply chain management responsibility a unique opportunity to discuss, debate and exchange ideas on strategic issues with their peers. Topics include category management, strategic sourcing, building customer alignment, benchmarking and economic forecasting.	See website for details	Christopher Lee lee@westernenergy.org (971) 255-4967	https://www.westernenergy.org/programs/	
Construction	Western Energy Institute	Integrated Resource Planning	An integrated resource plan (IRP) isn't just a plan; it's an involved process with multiple evaluation criteria that helps to determine both short and long term load growth. Through a broad analysis of supply-side and customer service options, an integrated resource plan comes into fruition. IRP professionals gather for peer support of this process, and to better understand the challenges facing electric and natural gas providers in the Western North America. Designed as a mix of interactive roundtable discussions and information-rich presentations, forum participants address topics such as resource management, data analysis and modeling, and stakeholder engagement.	November 4-5, 2019 Seattle, WA	Joshua Baker baker@westernenergy.org (971) 255-4970	https://www.westernenergy.org/programs/integrated-resource-planning-6/	Member: \$399

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Corrosion	American Petroleum Institute	Corrosion and Materials Professional	<p>API welcomes highly specialized inspectors, corrosion engineers, chemical engineers and other professionals across the entire petrochemical industry to obtain the API 571 Corrosion and Materials certification as a validation of their profound knowledge of corrosion processes.</p> <p>The API 571 certification will add significant value to your professional credentials, demonstrating to your employers and clients that you have obtained a high level of proficiency and understanding in this important field.</p> <p>API 571 certification is valid for a three-year term.</p>	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/api571#tab_qualification	
Corrosion	Gas Technology Institute	Measure Pipe to Soil Potential	This module explains measurement of the voltage difference between the pipe and the surrounding soil measurements used to determine whether cathodic protection levels are adequate or if a corrective action is required. Trainees learn to perform pipe-to-soil potential measurement accurately and to maintain test equipment and materials for proper operation. They also learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Corrosion	Gas Technology Institute	Install and Test Insulators	This module describes the importance of electrical isolation and identifies the types of insulating devices used for isolation. Trainees learn how to install insulators and how to test the effectiveness of the isolation device for cathodic protection. They also learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Corrosion	Gas Technology Institute	Conduct a Soil Resistivity Survey	This module defines soil resistivity and identifies the various methods used for soil resistivity testing, including the procedure for the Wenner four pin test method. Other methods described are single rod and soil box. Trainees learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Corrosion	Gas Technology Institute	Test for and Clearing of Shorts	This module covers the test methods used to identify shorts on gas pipeline systems and describes casing/carrier piping, insulated isolation fittings, and the problems associated with meter shorts. It explains corrective actions needed to clear shorting issues to ensure adequate cathodic protection. Trainees also learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Corrosion	Gas Technology Institute	Install an Anode and Test Station	This module explains the purpose of galvanic anodes and identifies guidelines for anode and test station installation. Test leads for external corrosion control and pipe-to-soil measurements are described. Trainees also learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Corrosion	Gas Technology Institute	Inspect and Maintain a Rectifier	This module covers the operation of an impressed current system and identifies the components and controls of a rectifier for the inspection procedure. Trainees learn how to take rectifier voltage and current readings and find out how to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Corrosion	Gas Technology Institute	Conduct Interference Testing	This module defines stray current interference and identifies its sources and types and the effect of stray current (static and dynamic types) on the pipeline system. The steps involved in conducting a stray current investigation, and the methods used to control/mitigate stray current interference are described. Trainees also learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95

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Corrosion	Gas Technology Institute	Inspect for Internal Corrosion	This module covers the types and causes of internal corrosion in pipeline systems and describes inspection monitoring methods used to detect this corrosion and mitigation methods. The module explains how smart pigging technology plays a significant role in pipe in-line inspection. An animation on launching and receiving demonstrates the process. Trainees also learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Corrosion	Gas Technology Institute	Measure for Internal and External Corrosion	This module identifies various corrosion conditions found internally and externally in pipe. Measurement methods for assessment of coating thickness and corrosion defects are discussed, along with how smart pigs provide in-line inspection and measurement to assist with assessment and remediation. Trainees also learn to recognize and respond to abnormal operating conditions	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Corrosion	Gas Technology Institute	Apply External Pipe Coating	This module describes the various types of coatings (factory, specialty, and general field applied) for metallic pipe and fittings to prevent corrosion as well as coating application procedures and requirements. Included are holiday detection for coating inspections and recognition of coating damage/failures. Trainees learn to perform installation procedures safely and correctly for a specific coating material type.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Corrosion	Gas Technology Institute	Perform Indirect Inspection Techniques	This module describes the various indirect inspection techniques, including close interval survey (CIS), direct current voltage gradient (DCVG), alternating current voltage gradient (ACVG), and pipeline current mapper (PCM). It explains the purpose and limitations of indirect inspection procedures.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Corrosion	National Association of Corrosion Engineers	Internal Corrosion for Pipelines - Basic Principles	The Internal Corrosion for Pipelines – Basic course introduces the fundamentals of implementing, monitoring, and maintaining an internal corrosion control program as part of an overall pipeline integrity management program. It is an introductory level course focusing on internal corrosion of liquid and natural gas pipelines used for transmissions, storage, and gathering systems. Classroom instruction consists of lecture, group exercises, cases studies, and hands-on field testing using different instruments and techniques utilized to identify and monitor internal corrosion.	See website for details	firstservice@nace.org (281) 228-6200	https://www.nace.org/education/courses-by-program/pipeline-industry/internal-corrosion-for-pipelines-basic	
Corrosion	National Association of Corrosion Engineers	Internal Corrosion for Pipelines - Advanced	This course focuses on the monitoring techniques and mitigation strategies required to assess internal corrosion and develop and manage internal corrosion control programs. Data interpretation, analysis, and integration, as well as criteria for determining corrective action for high-level internal corrosion problems within a pipeline system, will be covered in detail. Classroom instruction consists of lecture, group exercises, and cases studies.	See website for details	firstservice@nace.org (281) 228-6200	https://www.nace.org/education/courses-by-program/pipeline-industry/internal-corrosion-for-pipelines-advanced	
Emergency Response	Gas Technology Institute	Conduct an Inside Leak Investigation	This module focuses on the importance of safety in responding to an inside leak investigation safety requirements, types of equipment, and the procedural steps in responding to a gas leak or odor complaint investigation. The Smell of Danger video emphasizes the importance of proper investigative protocol. The video shows an incident in which the gas company responded twice to odor complaints, only hours before a home exploded.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Emergency Response	Gas Technology Institute	Investigate and Classify an Outside Leak	This module focuses on the procedures and actions involved in investigating outside natural gas leaks including finding all gas leaks and assigning the proper classification grade to the leak for follow-up. It includes leak classification guidelines and a video (Smell of Danger) that demonstrates the importance of proper response to a gas leak investigation. The video depicts the events preceding a gas explosion that resulted in a fatality and the destruction of a home.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Emergency Response	Gas Technology Institute	Investigate and Resolve a No Gas/Poor Supply Condition	This module identifies the causes of a no gas/poor supply condition associated with a customer's premise. The content provides a practical investigation protocol needed to resolve a condition including awareness, observation, asking the appropriate questions, and locating the specific cause of the no gas or poor supply problem. Trainees learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Emergency Response	Gas Technology Institute	Respond to an Emergency	This module identifies the levels of emergency and what they represent. It describes the elements of an incident command system, determines the first responder actions when responding to an emergency, and includes a sample thought process (the SAFER protocol) that can be followed for safe and effective emergency response.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Emergency Response	Midwest Energy Association	Leak Detection Class	The seminar includes discussions, demonstrations, and case studies aimed at understanding field application of leak detection and investigation of leak complaints.	See website for 2020 dates Chicago, IL	Sandy Driscoll sandyd@meaenergy.org	https://connect.meaenergy.org/events/calendar	
Emergency Response	Midwest Energy Association	Utility ICS Training	This program is a partnership between WEI and Concordia University, and is the nation's first center to provide emergency management training and educational services designed specifically for utilities. The training center is located at Concordia University's Columbia River Campus, along with Concordia's Center for Homeland Security Studies and Homeland Security Simulation Center. The training offers utilities new training in incident management and emergency response practices, and helps strengthen the industry's sharing of instructional resources, best practices and mutual assistance.	See website for details	Eric Christenson christenson@westernenergy.org (971) 303-2118	https://www.westernenergy.org/programs/	
Emergency Response	National Association of Corrosion Engineers	Pipeline Corrosion Assessment Field Techniques	The Pipeline Corrosion Assessment Field Techniques course covers corrosion basic principles and theory, field techniques, direct assessment, in-line inspection and hydro testing techniques, indirect inspections, direct examination, safety and data documentation. The course is presented in a format of lecture, discussion, group exercises. No hands-on training will be provided in this course.	See website for details	firstservice@nace.org (281) 228-6200	https://www.nace.org/education/courses-by-program/pipeline-corrosion-assessment-field-techniques	
End-Use Operations	Gas Technology Institute	Gas Technology Fundamentals	In this four-day course, learn about the gas technologies and applications used by industrial and commercial end users. Understand today's gas end user technologies—burners, water heating, boilers, sizing of heating equipment, operation of HVAC in commercial buildings, venting systems, and interior gas piping. You'll leave the course equipped with the technical background to productively and confidently handle customers' requests and concerns. The course can be taken on its own or as part of GTI's CIGC (Chartered Industrial Gas Consultant) or RCGC (Registered Commercial Gas Consultant) certification programs.	See website for details	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/classroom-training/	\$2,450

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
End-Use Operations	Gas Technology Institute	Efficient Gas Technologies	This two-day course focuses on new and existing gas technologies from the perspective of efficiency. It covers high-efficiency boilers, process heaters, water heating systems, electric generation systems, and economic justification methods for high-efficiency gas equipment. Take this course on its own or as part of GTI's CIGC (Chartered Industrial Gas Consultant) or RCGC (Registered Commercial Gas Consultant) certification programs.	See website for details	education@gastechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/classroom-training/	\$1,250.00
End-Use Operations	Gas Technology Institute	Industrial Steam Systems	Steam generation remains the major use of natural gas for industrial customers. This 2-day course covers the essential understanding of complex industrial steam generation and in-plant distribution at a level that allows you to comprehend and participate in solving customer steam system issues. It can be taken on its own or as part of GTI's CIGC (Chartered Industrial Gas Consultant) certification program.	Registration Deadline: August 8, 2019 (8:00 AM) August 20-21, 2019 Des Plaines, IL	Gira Joshi gira.joshi@gastechnology.org (847) 768-0823 publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/classroom-training/	\$1,150.00
End-Use Operations	Stark State College	Industrial Process Operation Technology	If you're interested in breaking into the oil and gas field, the industrial process operation technology degree will prepare you for entry-level positions in natural gas, refining, power generation and various plant processes. You'll gain skills required to ensure maximum production and quality through the knowledge of blueprint reading, hydraulics/pneumatics, robotics, PLC controls, compression and flow dynamics, circuits, mechanical drives and industrial management. Oil and gas companies need job-ready workers and you can be one with this two-year degree. The certificate in Industrial Process Operation Technology can prepare you to enter the workforce in natural gas, refining, power generation and various plant processes. You'll learn skill sets essential for industrial plant operations with emphasis on safety, efficiency and productivity. And, you'll acquire the necessary skills hydraulics/pneumatics, robotics, PLC controls, compression & flow dynamics, circuits, mechanical drives, blueprint reading and industrial management.	See website for details	Daniel Schweitzer (330) 494-6170 Ext. 5662 dschweitzer@starkstate.edu admissiona@starkstate.edu (330) 494-6170 1 (800) 797-8275	https://www.starkstate.edu/academics/programs/industrial-process-operation-technology/	
End-Use Operations	Stark State College	Petroleum Industrial Mechanics Technology	The petroleum industrial mechanics technology associate degree program teaches skills in diagnostics, machinery assembly, and installation and repair of commercial and industrial machinery. They're skills to help make you part of the trained workforce in-demand by the oil and gas industry, supporting petroleum refining, power generation, natural gas distribution and petrochemical manufacturing. The program will focus on blueprint reading, mechanical drives, HVAC, rigging, hydraulics/pneumatics and electrical control systems.	See website for details	Daniel Schweitzer (330) 494-6170 Ext. 5662 dschweitzer@starkstate.edu admissiona@starkstate.edu (330) 494-6170 1 (800) 797-8275	https://www.starkstate.edu/academics/programs/petroleum-industrial-mechanics-technology/	
End-Use Operations	Stark State College	Petroleum Technology - Instrumentation Electronics Technician	The instrumentation electronics technician major will provide the learner with the knowledge to troubleshoot and maintain electronics, instruments, automation, and measurement equipment along with calibrating pressure gauges and metering equipment. Instrumentation electronics technicians are employed throughout the oil and gas industry with emphasis at well pads, pipeline and meter sales points. The program was designed to meet the instrumentation electronics needs encountered when dealing with oil and gas monitoring and sales equipment. The instrumentation and electronics certificate is designed to provide the student the basic understanding of Supervisory Control and Data Acquisition systems utilized by the petroleum industry. Various forms of instrumentation will be covered including sensors and program logic controllers. Troubleshooting and maintenance will be covered.	See website for details	Daniel Schweitzer (330) 494-6170 Ext. 5662 dschweitzer@starkstate.edu admissiona@starkstate.edu (330) 494-6170 1 (800) 797-8275	https://www.starkstate.edu/academics/programs/instrumentation-electronics-technician/	

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
End-Use Operations	Stark State College	Petroleum Technology - Pipeline Technician	The petroleum technology – pipeline technician associate degree major program is designed to prepare students for entry-level positions in natural gas, refining, power generation and various plant processes where there is an emphasis on pipeline transportation. The program provides a basic understanding of the petroleum industry and the skill set essential for pipeline operations with emphasis on safety, efficiency and productivity. Key technical processes of gas compression, troubleshooting, maintenance, management operations, corrosion and petroleum instrumentation enables the student to ensure maximum production and quality while improving performance and cost efficiency.	See website for details	Daniel Schweitzer (330) 494-6170 Ext. 5662 dschweitzer@starkstate.edu admissiona@starkstate.edu (330) 494-6170 1 (800) 797-8275	https://www.starkstate.edu/academics/programs/petroleum-technology-pipeline-technician/	
Engineering	American Society of Mechanical Engineers	Financial Resource Management For Engineers	This course describes the fundamental terminology, processes, and strategies of business finance and accounting. It covers business plan fundamentals and key components, available and alternative funding sources, engineering economic analysis techniques such as NPV and ROI, and contract preparation, interpretation and management	Online	CustomerCare@asme.org (800) 843-2763 (U.S./Canada) 001 (800) 843-2763 (Mexico) (973) 882-1170 (outside North America)	https://www.asme.org/products/courses/financial-resource-management-for-engineers	\$195
Engineering	Gas Technology Institute	Transmission Pipeline Design and Construction Practices	As part of this four and a half-day session, work through the pipeline design process—from pipe sizing measurements to post-construction recordkeeping under the guidance of industry experts. You'll work with a team to design a pipeline under real-life conditions and circumstances. Using maps and work sheets, you'll learn how crossings at railroads, roads, streams, and rivers are constructed. You'll also receive a workbook that provides a guide to the codes and standards that apply to pipeline design—all excellent resources to take back to work.	See website for details	Joe Carlstrom Joe. Carlstrom@gastechology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-transmission-training/	\$2,450.00
Engineering	Gas Technology Institute	Measurement & Regulator Station Design for Distribution & Transmission	As part of this four and a half-day course, seasoned design experts will explore the many important aspects of designing pressure regulation, overpressure protection, and pressure control facilities. Learn system metering for optimal accuracy and ease of maintenance. Examine the issues that need attention when retrofitting or replacing the facilities or altering their operation and maintenance – with an emphasis on safety.	November 4-8, 2019 Rosemont, IL	Joe Carlstrom Joe. Carlstrom@gastechology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-transmission-training/	\$2,450.00
Engineering	Gas Technology Institute	Gas Distribution Engineering	Build the skills and knowledge to make sound engineering decisions while designing an expanding natural gas distribution system. In this task-based course, Task 1 presents your fictional-but-realistic project assignment—bringing natural gas to the new Sunny Vale subdivision. As you work through the project, you'll focus on estimating gas loads, selecting pipe routes, calculating pipe sizes, determining valve requirements, selecting customer meters, increasing pipe pressures, and repairing or replacing existing pipes, and more.	Online	education@gastechology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/online-training/	\$700.00
Engineering	Gas Technology Institute	Compressor Station & System Design	Build the practical skills you need to design a single-unit compressor station during this 4.5 day program. This course enhances your understanding of the main systems in a single-unit compressor station and gives you the confidence to make effective design decisions. You will have experience laying out major interconnecting piping and performing calculations to size equipment.	July 15-19, 2019 Rosemont, IL	Joe Carlstrom Joe. Carlstrom@gastechology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-transmission-training/	\$2,450.00
Engineering	Southern Gas Association	Pipeline Design Workshop	This 3.5-day workshop takes you through the pipeline design process—from pipe sizing measurements to post-construction recordkeeping—working with a team to design a pipeline under real-life conditions and circumstances. Attendees will gain an overall understanding of all elements of gas pipeline design—from initial pipe sizing through route selection and the detailed design of pipeline components.	October 29-November 1, 2019 Williams, Houston, TX	Gary Hines ghines@southerngas.org Learn@southerngas.org	https://southerngas.org/index.php/event-calendar/265	Member: \$1,1445 Non-member: \$1,845

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Engineering	Southern Gas Association	Engine Emissions Stack Testing & Analyzer Workshop	<p>With current regulations changing or new regulations proposed, working in air emissions can be overwhelming. This workshop provides attendees an overview of regulations (current and proposed), catalyst basics, emission calculations, utilization of portable analyzers, and hands-on training to allow the industry to meet or exceed regulatory requirements.</p> <p>All of these elements combined throughout the workshop will create an experience that is applicable to the day-to-day work for those that perform engine emission testing and regulatory compliance for air permits.</p>	October 21-24, 2019 Dallas, TX	<p>Gary Hines ghines@southern gas.org</p> <p>memberservices@southern gas.org (972) 620-8505</p>	https://www.southern gas.org/index.php/event-calendar/966	<p>Member: \$645</p> <p>Non-member: \$895</p>
Engineering	Western Energy Institute	Environmental Strategies	In the ever-changing landscape of climate change legislation, rapidly aging infrastructure, advancing technologies, renewable standards and the increased dependency on natural gas – environmental issues remain on the forefront of many organization’s missions and objectives. This forum provides environmental management professionals, environmental engineers and project and program managers the opportunity to focus on challenges and successes through a combination of interactive discussions, formal presentations, and tours designed with an operational emphasis. Attendees broaden their perspectives and further increase their ability to address the strategic environmental needs of their organizations. The group meets once in autumn, and once at the WEI Operations Conference.	See website for details	Diana Zoren zoren@westernenergy.org 971-255-4965	https://www.westernenergy.org/programs/	
Engineering	Western Energy Institute	Business Analytics	Utilities find themselves inundated with a huge diversity of data across all lines of their business. Business analytics professionals are a critical link to analyze and interpret information to improve systems and operations, maintain organizational health and ultimately improve the bottom line. These professionals gather semi-annually to discuss asset management, business intelligence, call center metrics and dashboard insights, enterprise risk management, key metrics, pricing and rate strategies for leveraging smart grid investments, and project management best practices.	September 26-27, 2019 Vancouver, WA	Amy Nye nye@westernenergy.org (503) 688-2794	https://www.westernenergy.org/programs/business-analytics-2/	Member: \$499
General Information	Gas Technology Institute	Identify the Properties and Characteristics of Natural Gas	In the Identify the Properties and Characteristics of Natural Gas recorded webinar you will learn the composition and physical properties of natural gas, including its flammable characteristics (lower and upper explosive limits). Understand measurement, temperature, and the sources and effects of carbon monoxide. See a video of a gas explosion. This webinar covers one of the 77 modules in GTI's Field Skills modular program. Webinar leader Joe Corso was the subject matter expert for that program and brings to the topic his many years of experience in the field and in training field personnel. This webinar was recorded in October 2014.	Online	<p>Vanessa Oneil Vanessa. oneil@gatechnology.org</p> <p>publicrelations@gti.energy 1 (847) 768-0500</p>	https://www.gti.energy/training-events/webinars/	\$545

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
General Information	Gas Technology Institute	Natural Gas Field Skills Training	<p>Natural Gas Field Skills Training is a series of training modules for field workers involved in natural gas construction, operations and maintenance. The program, comprised of 77 modules in ten different topic areas, helps prepare field workers for safe, effective on-the-job performance and meet regulatory requirements for operator qualification (OQ) assessments.</p> <p>This versatile program is offered as online, self-study modules or as training materials for your own instructor-led training. As a supervisor, you can train your workers online or in your own classroom, or you can blend the two options to meet your needs. Supervisors or individuals can also choose only the modules that they need.</p>	See website for details	<p>Vanessa Oneil Vanessa. oneil@gatechnology.org</p> <p>education@gti.energy</p> <p>publicrelations@gti.energy 1 (847) 768-0500</p>	https://www.gti.energy/training-events/natural-gas-field-skills/	
General Information	Midwest Energy Association	Utility General Education - EnergyU Course Library	Use as part of new employee orientation, and to train and test personnel on how the energy delivery industry works.	Online	<p>John Gann johng@midwestenergy.org</p> <p>mea@midwestenergy.org (651) 289-9600</p>	https://www.meenergy.org/learning/energy/libraries/ug/	
General Information	Northeast Gas Association	NGA Fall Operations Conference	Annual conference addressing current issues, from workplace safety to new technology applications.	October 17-18, 2019 Hartford, CT	Eileen Sitte esitte@northeastgas.org	https://www.northeastgas.org/2019_fall_ops_conf.php	
General Information	Western Energy Institute	Operations Conference	This program unites over 400 electric and natural gas energy operations managers, supervisors and front line employees for three days of education and networking across twelve different tracks: Natural Gas Transmission; Pipeline Safety – Integrity Management; Natural Gas Distribution Operations Excellence; Safety; Natural Gas Distribution – Emergency Response + Field Services; Electric Operational Excellence; Operational Leadership; Electric Substations; Asset Management; Operational Risk Environmental; Electric Transmission Design, Construction + Maintenance; and Our Customer's New Grid. Engaging workshops and breakout sessions are complemented by thought-provoking general sessions that get the team talking. This conference is a must for any upper-level manager, and many choose to bring their direct reports for team and skill-building. Vendors encouraged to display.	April 14-17, 2019 Boise, ID	Eric Christenson christenson@westernenergy.org (971) 303-2118	https://www.westernenergy.org/programs/operations-conference-4/	
Global Events	Gas Technology Institute	CH4 Connections The Methane Emissions Conference	The sixth annual CH4 Connections conference. The event includes a series of presentations and panel discussions on the key methane emissions issues facing the natural gas community, and the innovative solutions under development, in testing, or in use by gas utilities across the U.S.	September 18-19, 2018 Fort Collins, CO	<p>conferences@gatechnology.org</p> <p>publicrelations@gti.energy 1 (847) 768-0500</p>	https://www.gti.energy/training-events/ch4-connections/	
Integrity Management	American Society of Mechanical Engineers	MC 142 - Integrity Management of Natural Gas Pipelines using the ASME B31.8S Standard	<p>This two-day MasterClass provides the requirements for developing an integrity management program for gas pipelines using ASME B31.8S, which is the most widely used Code for managing pipeline integrity.</p> <p>The course explains how to develop and execute an Integrity Management Program (IMP). It discusses the best practices for risk management systems, reviews integrity assessments and responses to integrity assessments, and the priority for repairs. It provides details and examples of alternative integrity assessment methods, as well as preventive and mitigation measures.</p>	<p>October 24-25, 2019 Houston, TX</p> <p>December 12-13, 2019 New Orleans, LA</p>	<p>CustomerCare@asme.org (800) 843-2763 (U.S./Canada) 001 (800) 843-2763 (Mexico) (973) 882-1170 (outside North America)</p>	https://www.asme.org/products/courses/b318s-integrity-management-natural-gas-pipelines	<p>Houston Member: \$2,280 Non-member: \$2,380</p> <p>New Orleans Member: \$1,715 Non-member: \$1,815</p>

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Integrity Management	American Society of Mechanical Engineers	PD 370 - B31.8 Gas Transmission & Distribution Piping Systems	ASME B31.8 is the most widely used Code for the design, operation, maintenance, and repair of natural gas distribution and transmission pipelines. This 2-½ day course explains the present-day piping Code provisions, the principal intentions of the Code, and how the Code should be used. The emphasis is on transmission pipelines. Each participant will receive a copy of the most recent edition of the ASME Code book, B31.8 Gas Transmission and Distribution.	October 21-23, 2019 Houston, TX	CustomerCare@asme.org (800) 843-2763 (U.S./Canada) 001 (800) 843-2763 (Mexico) (973) 882-1170 (outside North America)	https://www.asme.org/products/courses/b318-gas-transmission-distribution-piping-systems	Houston Member: \$2,275 Non-member: \$2,375
				December 9-11, 2019 New Orleans, LA			New Orleans Member: \$2,275 Non-member: \$2,375
Integrity Management	American Society of Mechanical Engineers	PD706 - In-line Inspections for Pipelines	From simple beginnings, the use of in-line inspection (ILI) technologies in the pipeline industry has grown significantly during the last two decades. Today, more than ever, there is an understanding between industry and regulators that ILI is a go-to methodology for maintaining pipeline integrity. ILI has given rise to three interested parties, which are the regulators, the pipeline operators, and the ILI vendors. This course provides an overview of how these three stakeholders interact, from a technical perspective.	October 21-22, 2019 Houston, TX	CustomerCare@asme.org (800) 843-2763 (U.S./Canada) 001 (800) 843-2763 (Mexico) (973) 882-1170 (outside North America)	https://www.asme.org/products/courses/inline-inspections-for-pipelines	Member: \$1,550 Non-member: \$1,650
Integrity Management	American Society of Mechanical Engineers	Pipeline Integrity Management Systems: A Practical Approach	The key for success of Pipeline Integrity Management resides in the dynamic linkage and interaction between a management system (MS) and an Integrity Management Program (IMP), known as Pipeline Integrity Management System (PIMS), for continuously improving pipeline integrity and sustaining risk reduction.	Print Book	CustomerCare@asme.org (800) 843-2763 (U.S./Canada) 001 (800) 843-2763 (Mexico) (973) 882-1170 (outside North America)	https://www.asme.org/products/books/pipeline-integrity-management-systems-practical	Member: \$223 Non-member: \$279
Integrity Management	American Society of Mechanical Engineers	MC140 - Pipeline Defect Assessment	This two-day MasterClass provides a broad overview of analysis methods for defects in pipeline. The course begins with a summary of important material properties and a review of integrity assessment methods for pipeline defects. Analysis methods for corrosion are covered, including each of the methods cited in the most recent version of ASME B31G - Manual for Determining the Remaining Strength of Corroded Pipelines. A discussion on analysis methods for mechanical damage is also included.	See website for details	CustomerCare@asme.org (800) 843-2763 (U.S./Canada) 001 (800) 843-2763 (Mexico) (973) 882-1170 (outside North America)	https://www.asme.org/products/courses/pipeline-defect-assessment	
Integrity Management	Gas Technology Institute	Distribution Integrity Management Program (DIMP)	<p>The Distribution Integrity Management Program (DIMP) Rule is one of the most significant addition to Federal pipeline regulations (49 CFR Part 192) in many years.</p> <p>This four-day program will help you and your company:</p> <ul style="list-style-type: none"> - Gain a clear understanding of the DIMP Rule - Learn which data must be evaluated - Prepare to meet the Rule's requirements. <p>There have been many new developments since the DIMP Final Rule was released. The course will include discussion of these important changes—including the results and findings of operator audits conducted since the August 2, 2011, implementation date. Our instructors for this workshop were involved in the rule-making process, so you'll get first-hand information. New material is added to the course contents as it becomes available.</p>	See website for details	Joe Carlstrom Joe. Carlstrom@gastechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-distribution-training/	\$2,450

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Integrity Management	National Association of Corrosion Engineers	Direct Assessment	<p>The Direct Assessment course concentrates on internal, external, and stress corrosion cracking direct assessment, along with pre- and post-assessment, quality assurance, data analysis and integration, and remediation and mitigation activities. The course will also cover the benefits and limitations of Direct Assessment, its relationship to an overall integrity assessment program and industry standards, regulations, and best practices.</p> <p>The course is presented in a format of lecture, discussion, and group exercises.</p>	November 18-22, 2019 Houston, TX	firstservice@nace.org (281) 228-6200	https://www.nace.org/education/courses-by-program/pipeline-industry/direct-assessment	
Integrity Management	National Association of Corrosion Engineers	In Line Inspection	<p>The In-Line Inspection course covers the benefits of utilizing In-Line Inspection, selection of technologies related to operational parameters, operational issues, and evaluating data relevant to assessing fitness for service.</p> <p>The course is presented in a format of lecture, discussion, and group exercises.</p>	August 5-9, 2019 December 16-20, 2019 Houston, TX	firstservice@nace.org (281) 228-6200	https://www.nace.org/education/courses-by-program/pipeline-industry/inline-inspection	
Integrity Management	National Association of Corrosion Engineers	Pipeline Corrosion Integrity Management	<p>The Pipeline Corrosion Integrity Management (PCIM) course serves as the key training track for the PCIM professional who focuses on the implementation and management of an integrity program for a pipeline system. The course provides a comprehensive up-to-date coverage of the various aspects of time-dependent deterioration threats to liquid and gas pipeline systems and will focus on interpreting integrity related data, performing an overall integrity assessment on a pipeline system, calculating and quantifying risk, and making recommendations to company management on risk management issues.</p> <p>Classroom instruction is comprised of lectures and discussions.</p>	August 26-30, 2019 September 16-20, 2019 November 11-15, 2019 Houston, TX	firstservice@nace.org (281) 228-6200	https://www.nace.org/education/courses-by-program/pipeline-industry/pipeline-corrosion-integrity-management	
Integrity Management	Southern Gas Association	Advanced Inline Inspection Workshop	<p>This workshop provides operations and maintenance engineers in pipeline companies with the knowledge to establish and manage an intelligent pigging program that contributes optimum value toward improved pipeline integrity.</p>	See website for 2020 dates	Fraser Farmer ffarmer@southerngas.org	https://www.southerngas.org/index.php/event-calendar/208	<p>SGA member: \$1295 (\$1095 for second and subsequent registrations from the same company)</p> <p>Non-member: \$1495 (\$1295 for second and subsequent registrations from the same company)</p>

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Integrity Management	Southern Gas Association	Integrity Management for Gas Pipelines	This workshop goes beyond understanding U.S. PHMSA IMP regulations and ASME B31.8S, Managing the Integrity of Gas Pipelines, and focuses on the future of IMP. Workshop instructors will provide an overview of IMP basics as well as regulatory requirements and processes. Instructors will then look specifically at the impact of IMP regulations that are on the horizon. This workshop also includes an interactive discussion centered on learning from past history and looking beyond.	See website for 2020 dates	Fraser Farmer ffarmer@southerngas.org	https://www.southerngas.org/index.php/event-calendar/210	SGA member: \$1295 (\$1095 for second and subsequent registrations from the same company) Non-member: \$1495 (\$1295 for second and subsequent registrations from the same company)
LNG	Gas Technology Institute	Introduction to Small Scale LNG	This 2-day course is designed to provide interested parties with a thorough understanding of the global small-scale LNG value chain. It will equip attendees with fundamental knowledge of small-scale LNG projects and operations from both commercial and technological perspectives.	Registration Deadline: October 25, 2019 (8:30 AM) October 28-29, 2019 Houston, TX	Kexin Liu kxie@gti.energy (847) 768-0760 publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/liquefied-natural-gas-training/	\$3,095
LNG	Gas Technology Institute	Understanding LNG Terminals and Terminal Operations	With the boom in construction of LNG plant across the world, companies need to understand how an LNG terminal is operated. This course provides a thorough understanding of terminal operations in the context of the global LNG industry. The course will be taught by experts with years of LNG industry experience.	Registration Deadline: September 28, 2019 (8:30 AM) October 1-3, 2019 Houston, TX	Kexin Liu kxie@gti.energy (847) 768-0760 publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/liquefied-natural-gas-training/	\$4,249
LNG	Gas Technology Institute	Fundamentals of Baseload LNG Markets, Technology, Economics	Engage with leading LNG technical and commercial experts to learn new trends and applications in LNG markets, pricing, contracts, gas supply, project economics and business models, LNG shipping, liquefaction and regasification technologies...and more. Find out the answers to these and other questions: What is the outlook for global LNG supply and demand in 2025 and beyond? Why do LNG heating values and compositions vary among projects? What is the commercial prospect and technical viability of Floating LNG units?	Registration Deadline: September 21, 2019 (8:30 AM) September 24-26, 2019 Houston, TX	Kexin Liu kxie@gti.energy (847) 768-0760 publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/liquefied-natural-gas-training/	\$3,995.00
LNG	Gas Technology Institute	LNG Shipping and Cargo Handling	LNG shipping plays a critical role in the ongoing expansion of the global LNG industry. This course provides an understanding of what's involved in loading, docking, and unloading a ship carrying LNG. Security and safety are emphasized. The seven parts of the course are: - Introduction and Overview - The Import Terminal - LNG Ships - The Dock - Cargo Unloading Operation - Maintenance and Training - Security Requirements	Online	Vanessa Oneil vanessa.oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/liquefied-natural-gas-training/	\$425

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
LNG	Gas Technology Institute	LNG Plant Safety	Build or bolster your awareness of the potential hazards in an LNG plant and learn how to ensure an emergency won't occur. Learn to recognize the different levels of emergencies and the steps to take to handle them. The course comprises four parts: 1. Safety issues related to storage and handling of LNG 2. Hazardous situations 3. Hazard detection and emergency response 4. A day in the life of an LNG technician	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0503	https://www.gti.energy/training-events/liquefied-natural-gas-training/	\$400
LNG	Gas Technology Institute	How an LNG Plant Operates: Import, Storage, and Vaporization	Highlights of each narration appear on the screen, and a transcript is available with one click. Steve Vitale provides a basic plant concept layout, with tanks, condensers, vaporizers, pumps, and other equipment and explains the purpose for each component. The course comprises three parts: 1. Import Terminal Operations 2. Process Flow Diagrams (Tank Connections; BOG Compressors; Ship Unloading) 3. The Desuperheating Process (Riding the Pump Curves; Pumping vs. Compression; Miscellaneous Plant Components)	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/liquefied-natural-gas-training/	\$400
LNG	Northeast Gas Association	LNG Safety and Emergency Response Training	Partnering with the Massachusetts Fire Academy, NGA offers a two day classroom and hands-on training on LNG properties, handling, storage and emergency response.	September 10-11, 2019 September 25-26, 2019 October 9-10, 2019 October 23-24, 2019 November 6-7, 2019 Stow, MA	Eileen Sitte sitte@northeastgas.org (781) 455-6800 ext 117	https://www.northeastgas.org/tql-lng-safety.php	LDC member: \$945 Associate member: \$1,145 Non-member: \$1,995
LNG	The University of Texas at Austin Petroleum Extension	LNG: Basics of Liquefied Natural Gas	Provides basic instruction about all facets of the liquefied natural gas (LNG) industry. Focuses on presenting a thorough understanding of LNG liquefaction and regasification facility operations from the process side and the reasons for the rapid expansion and evolution of the industry. Addresses three major building links of the LNG chain: liquefaction plant, transport ships, and receiving terminal.	September 11-13, 2019 Houston, TX	HTC@petex.utexas.edu (800) 687-7052 (281) 397-2440 (800) 687-4132 (512) 471-5940	https://petex.utexas.edu/index.php/training/278	\$1,590
Maintenance	Gas Technology Institute	Inspect for Atmospheric Corrosion	This module shows trainees what to look for when conducting an atmospheric inspection. The factors and corrosion-related conditions that affect aboveground pipe facilities are identified and detailed. Trainees also learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Maintenance	Gas Technology Institute	Inspect, Operate and Maintain a Valve	This module describes the various types of valves, their operating characteristics, and explains the tasks required to safely complete a valve inspection. It also covers valve maintenance.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Maintenance	Gas Technology Institute	Repair Cast Iron Pipe Joints	This module describes the various methods used to repair cast iron bell and spigot joints. Procedural methods include anaerobic sealant, encapsulants, and mechanical repair clamps. Trainees also learn to inspect the visual condition of the pipe/joint to determine whether to repair or replace the section.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Maintenance	Gas Technology Institute	Install Mechanical Clamps and Repair Sleeves	This module describes repair methods used for temporary and permanent pipe repair with the use of mechanical fittings and repair sleeves. It includes the installation procedure for these repair methods.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Maintenance	Gas Technology Institute	Stop Flow in a Pipeline Under Pressure	This module covers the equipment and procedures used to stop gas flow safely in pressurized pipelines, including the line stop process and low-pressure bag and stopper installation. Videos and animations enhance understanding by demonstrating concepts.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Maintenance	Gas Technology Institute	Squeeze-Off a pipeline	This module illustrates the mechanical and hydraulic squeeze tool procedures for polyethylene and steel pipe. Trainees learn to recognize and control static electricity on PE pipe; perform the squeeze-off procedure properly and safely on both PE and steel pipe. To address safety, the module includes an understanding of static electricity and the measures required to control detrimental effects to the workers and the public.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Maintenance	Gas Technology Institute	Operate and Maintain an Odorizer	This module covers the regulatory requirements for maintaining the correct concentration of odorant for natural gas odorization and includes odorant properties, safety measures required during handling, and the transfer process procedure.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Maintenance	Gas Technology Institute	Monitor Odorization by Periodic Sampling	This module describes the regulatory requirements for proper natural gas odorization, odorant testing guidelines, and the procedures for conducting odor level tests by sampling with an air dilution instrument. Trainees learn how to perform a sniff test with an air dilution instrument.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Maintenance	Gas Technology Institute	Conduct a Walking Leak Survey	This module defines the types of surveys conducted, as required by regulatory code. It describes the operation and use of the flame ionization (FI) instrument and walking leak survey search patterns that ensure a thorough investigation for possible gas leaks. Also described are the factors that can affect the leak survey.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Maintenance	Gas Technology Institute	Perform a Mobile Leak Survey	This module describes the procedural steps in conducting a mobile gas leak survey with an optical methane detector (OMD), and with a flame ionization (FI) unit; including defining specific OMD and FI operational differences. It also covers regulatory requirements, aerial surveys, OMD display modes, and CGI gas scales.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Maintenance	Gas Technology Institute	Repair/Tie-in Polyethylene Pipe	This module describe various tie-in methods used to connect polyethylene pipe and fittings and explains how to evaluate and determine the extent of polyethylene pipe/fitting damage and the proper method for repair or replacement. It covers heat fusion, electrofusion, mechanical fittings, and repair sleeves and the connection methods for final tie-in	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Maintenance	Gas Technology Institute	Repair/Tie-in Steel Pipe	This module describes various defects in steel pipe/welds and presents the proper way to inspect the visual condition of steel pipe to determine repair or replacement. Included are the procedures for controlling gas flow during a typical tie-in process and applications of fittings and equipment associated with the tie-in process.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Maintenance	Gas Technology Institute	Repair/Tie-in Cast Iron Pipe	This module explains how to inspect the visual condition of cast iron pipe to determine repair or replacement. It describes the tie-in procedures for cast iron to steel or polyethylene pipe connections and presents repair methods for cast iron pipe.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Maintenance	Gas Technology Institute	Inspect and Maintain a Regulator Vault	This module covers the basic steps for inspection and maintenance of regulator stations/vaults, including ventilation equipment, vault cover, and structural integrity. It includes an explanation of the regulator bypass procedure and two videos, Internal Inspection of a Regulator, and Bypassing and Testing Monitor and Control Regulators. Trainees learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Maintenance	Gas Technology Institute	Activate/Terminate a Gas Service	This module covers the procedures for establishing gas service and discontinuing gas service for a customer - commonly referred to as performing a turn on or turn off procedure. Also covered are the preliminary inspection, purging, the importance of customer safety, and the prevention of unauthorized use of gas. Trainees learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Maintenance	Gas Technology Institute	Maintain a Pipeline Compressor Station	This module explains basic compressor station maintenance requirements and identifies the governing regulatory codes. Module topics include engine and compressor mechanical inspections; compressor gas path integrity check; emergency shutdown system; gas detection systems and alarms; and compressor repair. Trainees learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Maintenance	The University of Texas at Austin Petroleum Extension	Valves and Actuators (Operation and Maintenance)	For liquid pipeline operations and maintenance personnel, this course provides basic instruction for the most common valves and actuators used on pipelines. Participants visit manufacturing facilities to see firsthand how valves and actuators are made. Field trips teach assembly and disassembly of valves and actuators	September 16-18, 2019 Houston, TX	HTC@petex.utexas.edu (800) 687-7052 (281) 397-2440 (800) 687-4132 (512) 471-5940	https://petex.utexas.edu/index.php/training/307	\$1,590
Maintenance	The University of Texas at Austin Petroleum Extension	ValvePro® Certified Valve Maintenance Technicians	PETEX and Sealweld Corporation have joined forces to provide valve maintenance training in a blended learning format, combining online and hands-on instruction to offer the most complete valve care training available today. Based largely on the popular Valve Maintenance Safety Training Seminar, ValvePro® offers practical and relevant information from troubleshooting thousands of valve maintenance problems.	July 9-11, 2019 October 8-10, 2019 Houston, TX August 13-15, 2019 November 19-21, 2019 Calgary, AB	HTC@petex.utexas.edu (800) 687-7052 (281) 397-2440 (800) 687-4132 (512) 471-5940	https://petex.utexas.edu/index.php/training/308 http://www.valvepro.com/	\$2,500
Marketing	Gas Technology Institute	Marketing Fundamentals for the Energy Industry	During the four and a half-day session, get a solid introduction to the industrial and commercial market segments and the ways to develop and maintain good customer relationships. Participate in group problem-solving to reinforce the topics. This course can be taken on its own or as part of GTI's CIGC (Chartered Industrial Gas Consultant) or RCGC (Registered Commercial Gas Consultant) certification programs.	See website for 2020 dates	Gira Joshi gira.joshi@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/commercial-and-industrial-natural-gas-training/	\$2,450
Marketing	Northeast Gas Association	Annual Sales & Marketing Conference	NGA's Annual Sales and Marketing Conference brings together professionals from the regional natural gas industry to explore current topics.	See website for 2020 dates	Dan Dessanti ddessanti@northeastgas.org Eileen Sitte esitte@northeastgas.org	https://www.northeastgas.org/eve-sales-mktg.php	
Marketing	Northeast Gas Association	Regional Market Trends Forum	Annual one-day event that addresses current supply and policy issues impacting the Northeast market.	April 23, 2020 Hartford, CT	Steve Leahy leahy@northeastgas.org	https://www.northeastgas.org/eve-regional.php	

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Measurement	American School of Gas Measurement Technology	Annual School	The School is comprised of a two and one-half day series of 1 hour lecture and hands-on classes, plant tours, and exhibits by 108 exhibitors. Exhibitors are requested to teach application and performance capabilities of their equipment and refrain from sales activities during the School. At the time of registration, the registrants receive a CD copy of the "Proceedings" of the American School of Gas Measurement Technology containing the technical papers to be presented in the various lectures which comprise the current program.	September 16-19, 2020 September 14-17, 2020 September 13-16, 2021 September 12-15, 2022 Houston, TX	registration@asgmt.com	https://asgmt.com/	For 2020 date: \$150 until midnight on August 31, 2019 \$175 after August 31, 2019
Measurement	Appalachian Gas Measurement Short Course	Annual Conference	The goal of the AGMSC is to provide affordable, high quality training to anyone involved in the measurement, regulation and control of natural gas. Our instructors are experienced industry volunteers who are willing to share their knowledge with you. The Short Course also provides an excellent opportunity to exchange ideas and share information with your industry peers. Through the years, the Short Course has contributed substantially to advancing the art and science of gas measurement and pressure regulation in the gas industry. Papers presented at the Short Course are published in manuals and provide a valuable reference source. The Appalachian Gas Measurement Short Course remains one of the most highly regarded educational forums of any kind in the Natural Gas industry.	July 29-August 1, 2019 Moon Township, PA	Joan Sabo sabo@rmu.edu	https://www.agmsc.org/	Online registration is available until midnight on July 22, 2019: \$100 On-site registration: \$150
Measurement	Canadian School of Hydrocarbon Measurement	Annual School	It is the purpose of the School, the sponsoring associations, and the operating and manufacturing companies within the petroleum and natural gas industry, to provide instruction on technical subjects for people in the industry. In this way, proper facility design, installation, operation and maintenance of measurement and regulation equipment, and the handling of natural gas is presented and studied. Accurate and useful information is also developed and published for the benefit of the industry and the general public.	Tentative Dates March 17-8, 2020 Calgary, AB	info@cshn.ca (403) 294-1644	https://www.cshn.ca/	
Measurement	Corpus Christi Area Measurement Society	Annual School	The school will consist of more than 60 lecture and hands-on classes with over 70 hours of instruction dealing specifically with natural gas, refined products, crude oil measurement, and product quality testing. The classes will include fundamental measurement and quality principles as well as more advanced classes	See website for 2020 dates Corpus Christi, TX	Joyce Boyce ccams2013@yahoo.com 210-522-2435 Troy Dodson (361) 242-4194 Chris French (361) 443-2222	http://www.ccams.info/	
Measurement	International School of Hydrocarbon Measurement	Annual School	The International School of Hydrocarbon Measurements offers you the opportunity to keep current on the latest changes and developments in the field of hydrocarbon measurement. The 2016 school will offer over 260 technical classes that include fundamental classes and special hands-on workshops covering a wide range of Gas and Liquid Measurement/Flow topics as well as an extensive educational exhibit area presented by leading manufacturers in the measurement industry.	May 12-14, 2020 May 11-13, 2021	Leon Crowley lcrowley@ou.edu (405) 831-8609	https://www.hydrocarbonmeasurement.com/	
Measurement	Midwest Energy Association	Measurement Excellence Course	The objective of the Measurement Excellence Course is to have the attendee gain a comprehensive overview of the principles of natural gas measurement.	October 14-17, 2019 Bloomington, MN	mea@midwestenergy.org (651) 289-9600	https://midwestenergy.mnassoc.wliinc33.com/events/Measurement-Excellence-Course-2019-101930/details	Member: \$475 Non-member: \$675

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Measurement	The University of Texas at Austin Petroleum Extension	Natural Gas Measurement - Fundamentals	Covers the basics of physical and chemical makeup of gas mixtures and how measurements of density and volume are affected by temperature and pressure. Covers the fundamentals of flow measurement of natural gas and how to obtain data, analyze, and determine precise measurement. Covers the basics of natural gas meter station designs, applications of volume-determining meters including the flow-conditioning requirements for orifice meters, gas turbine meters, Coriolis, and ultrasonic meters. Presents the pros and cons of different types of natural gas meters installed in the field and their relative preference for the type of application. Provides hands-on practice in inspecting dual-chamber orifice meter runs. Covers the basics of automatic and manual sampling of natural gas for the determination of the chemical composition and Btu values. Describes how gas composition and fluid properties affect measurement; and, also describe higher order real-time diagnostic capabilities for UFM and Coriolis meters. Ties all this information to optimize the natural gas measurement system for field application.	Dec 3-6, 2019 Houston, TX	HTC@petex.utexas.edu (800) 687-7052 (281) 397-2440 (800) 687-4132 (512) 471-5940	https://utw10830.utweb.utexas.edu/index.php/about-us/contact-us	\$1,855
Measurement	The University of Texas at Austin Petroleum Extension	Fundamentals of Petroleum Measurement (first of three levels)	Provides fundamentals in manual tank gauging, principles of operation of the primary dynamic meters, and a base knowledge on meter proving, factor calculation, and meter/tank ticket calculations. Uses the API Manual of Petroleum Measurement Standards and the ASTM Test Methods as the basis for instruction.	July 22-26, 2019 September 23-27, 2019 Houston, TX	HTC@petex.utexas.edu (800) 687-7052 (281) 397-2440 (800) 687-4132 (512) 471-5940	https://petex.utexas.edu/index.php/training/306	\$2,385
Measurement	The University of Texas at Austin Petroleum Extension	Intermediate Petroleum Measurement (second of three levels)	Builds on Fundamentals of Petroleum Measurement along with 1 to 3 years of field experience in measurement. Introduces some basic trouble-shooting techniques on both static tank measurement and dynamic measurement of quality and quantity of petroleum including refined products. Provides more information on the design and operation of various meter, prover, and automatic sampling system designs and the use of flow computers. Uses API MPMS and the ASTM Test Methods as basis for instruction	July 29-August 2, 2019 September 30-October 4, 2019 Houston, TX	HTC@petex.utexas.edu (800) 687-7052 (281) 397-2440 (800) 687-4132 (512) 471-5940	https://petex.utexas.edu/index.php/training/305	\$2,385
Measurement	The University of Texas at Austin Petroleum Extension	Advanced Petroleum Measurement (third of three levels)	Builds on previous two courses and 2 to 5 years of field experience in measurement. Introduces additional trouble-shooting, problem-solving skills, and system performance analysis. Covers advanced techniques in loss control analysis, dynamic metering systems, and knowledge of various methods for calibrating both meter provers and aboveground storage tanks. Addresses needs for advanced EFMs and ATG systems. Uses API MPMS and the ASTM Test Methods.	August 5-9, 2019 October 7-11, 2019 Houston, TX	HTC@petex.utexas.edu (800) 687-7052 (281) 397-2440 (800) 687-4132 (512) 471-5940	https://petex.utexas.edu/index.php/training/298	\$2,385
Measurement	The University of Texas at Austin Petroleum Extension	Mass Measurement of Hydrocarbon Fluids (Direct and Inferred)	Teaches theory, installation, operation, and proving practices of mass measurement of light hydrocarbon fluids including natural gas liquids and other liquids. Provides instruction in meter proving and calculation of meter factors for meters in high vapor pressure service (e.g., propane or mixed NGLs). Provides instruction and simulation/demonstration of densitometer proving by pycnometer and pycnometer calibration. Demonstrates proper procedures and emphasizes safe practices; and provides instruction in the calculation of volumes at base conditions of single-grade light hydrocarbons from measured NGL mixes. Emphasis placed upon proper procedures and safe practices.	October 28-November 1, 2019 Houston, TX	HTC@petex.utexas.edu (800) 687-7052 (281) 397-2440 (800) 687-4132 (512) 471-5940	https://petex.utexas.edu/index.php/training/297	\$2,275

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Measurement	The University of Texas at Austin Petroleum Extension	Natural Gas Measurement - Electronic Flow Measurement	Covers the basics of electronic flow measurement including the installation and calibration of electronic flow devices. Provides an overview of basic electrical/electronic theory and instruction on installation, operation, and calibration of electronic transmitters with practical lab exercises.	December 9-11, 2019 Houston, TX	HTC@petex.utexas.edu (800) 687-7052 (281) 397-2440 (800) 687-4132 (512) 471-5940	https://petex.utexas.edu/index.php/training/304	\$1,590
Measurement	Western Gas Measurement Short Course	Short Course	This short course is the premier natural gas event in the west and is only held every 2 years. Don't miss out on the following benefits. - Over 100 individual classes ranging from basic to advanced. - Over 25 hands on classes for the most common products used in the industry. - Vendor night will be a casino night - Over 100 exhibitors showcasing their products - WGMSC mobile app including schedules, speaker bios, course white papers, networking, and more. - Several drink tickets to be used during multiple happy hour events held in the exhibit hall. - Raffle prizes will be handed out each day - Hot breakfast and buffet lunches - Networking opportunities with the best and brightest in our industry	April 6-9, 2021 Victoria, BC	Carol Wallace webmaster@wgmsc.org	https://www.wgmsc.org/	
Miscellaneous	American Petroleum Institute	Qualification of Ultrasonic Testing Examiners (Phased Array)	The availability of high quality and accurate Ultrasonic Testing (UT) data is often the cornerstone for FFS and RBI decisions, and it is becoming increasingly important for those applications. Therefore in the industry's best interest, API implemented a Qualification of Ultrasonic Testing Examiners certification program to assist in defining the minimum criteria for assessing the performance of UT technicians. Exams for these programs are administered differently than other ICP certifications. They utilize the hands-on, performance demonstration testing method.	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/apiqua	
Miscellaneous	American Petroleum Institute	Qualification of Ultrasonic Testing Examiners (Sizing)	The availability of high quality and accurate Ultrasonic Testing (UT) data is often the cornerstone for FFS and RBI decisions, and it is becoming increasingly important for those applications. Therefore in the industry's best interest, API implemented a Qualification of Ultrasonic Testing Examiners certification program to assist in defining the minimum criteria for assessing the performance of UT technicians. Exams for these programs are administered differently than other ICP certifications. They utilize the hands-on, performance demonstration testing method.	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/apiquase	
Miscellaneous	American Petroleum Institute	Qualification of Ultrasonic Testing Examiners (Detection)	The availability of high quality and accurate Ultrasonic Testing (UT) data is often the cornerstone for Fitness for Service (FFS) and Risk Based Inspection (RBI) decisions, and it is becoming increasingly important for those applications. Therefore in the industry's best interest, API implemented a Qualification of Ultrasonic Testing Examiners certification program to assist in defining the minimum criteria for assessing the performance of UT technicians. Exams for these programs are administered differently than other ICP certifications. They utilize the hands-on, performance demonstration testing method.	See website for details	(202) 4682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/apiquete#ab_about	

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Miscellaneous	Gas Technology Institute	Emerging Industrial Gas Technologies	In two-days, learn what you need to know about gas technologies that pose the best opportunity for developing the future of the gas market. The emerging industrial gas technologies studied include high-efficiency boilers, distributed generation and cogeneration, natural gas vehicles, gas/oxygen combustion processes, and new gas technologies for the key steel and plastics industries. The course can be taken on its own or as part of GTI's CIGC (Chartered Industrial Gas Consultant) certification program. Even if you're not seeking a certificate, you will benefit from this course.	See website for details	Gira Joshi gira.joshi@gastechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/commercial-and-industrial-natural-gas-training/	\$1,250.00
Miscellaneous	Western Energy Institute	Fleet Management	This program provides fleet leadership professionals an opportunity to discuss best practices, and share new processes and technologies. Participants work collaboratively to select topics that are relevant to all organizations with vehicle and equipment fleets. Addressed are strategic questions surrounding staff management, alternative fuel technology, vehicle replacement policy, the role of fleet within an organization, and tactical solutions for managing everchanging fleet operations and administrative functions.	Aug 7-8, 2019 Salt Lake City, UT	Amy Nye nye@westernenergy.org (503) 688-2794	https://www.westernenergy.org/programs/fleet-management-6/	Member: \$329 Non-member: \$499
Miscellaneous	Western Energy Institute	Claims + Damage Recovery	This program focuses on sharing best practices and building relationships with other leaders in claims and collection management, and offers insights from guest speakers who have been expert witnesses in claims investigations. Discussions address a wide variety of issues around balancing the need to protect utility assets with the ever-increasing priorities of providing an excellent customer experience. Participants learn from industry professionals who provide services to our members, and discuss issues common to Western utilities such as fire and storm recoveries, inverse condemnation, settlement and negotiations and proper record keeping.	See website for details	Amy Nye nye@westernenergy.org (503) 688-2794	https://www.westernenergy.org/programs/	
Miscellaneous	Western Energy Institute	Corporate Performance Management	Today's energy businesses are facing increasing competition and the need to constantly improve their operational excellence and efficiency. Corporate Performance Management participants are leaders in the strategic planning of performance metrics and long-term performance improvement. Discussions are at the strategic level and focus on development of benchmarking and key performance indicators, as well as managing crossfunctional corporate initiatives, and developing and sustaining a performance culture.	September 30-October 1, 2019 Portland, OR	Christopher Lee lee@westernenergy.org (971) 255-4967	https://www.westernenergy.org/programs/corporate-performance-management-2/	Member: \$499
Miscellaneous	Western Energy Institute	Customer Connections	Customer-focused utility executives gather annually to discuss current topics and best practices surrounding pressing issues in their departments. Roundtable topics from recent offerings include CIS implementations, satisfaction surveys, customer experience, multi-generational workforce, migration to online self-serve options, outage restoration communications, outsourcing call center care, social media strategies, and employee safety and comfort.	See website for details	Joshua Baker baker@westernenergy.org (971) 255-4970	https://www.westernenergy.org/programs/	
Miscellaneous	Western Energy Institute	Energy Management	Professionals in natural gas energy supply, transportation and storage gather for presentations and roundtable discussions focused on Western North America's demand outlook and factors expected to influence the cost of delivering natural gas. This collaborative atmosphere, combined with the attendee's high level of expertise, leads to complex and analytical discussions regarding long-term forecasts, international energy demand, LNG updates, the price of carbon, renewable developments, electric/gas convergence issues, and the influence of storage and infrastructure projects.	See website for details	Kristen Taylor at taylor@westernenergy.org (971) 255-4969	https://www.westernenergy.org/programs/	

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Miscellaneous	Western Energy Institute	Joint Use	As new technology, new regulations and aging infrastructure continue to change the landscape of joint use, it becomes increasingly important for key stakeholders to foster open dialogue and collaborate to solve shared problems, focus on safety goals, and ensure the equity of poles and other utility assets. Considered the premier joint use conference, content is designed for representatives from utility, telecomm, wireless and broadband companies; as well as consultants and service companies who deal with joint use, pole ownership and attachments. The conference format provides a unique mix of presentations, dynamic power table topics, vendor displays and networking opportunities to exchange information and best practices.	September 17-20, 2019 Austin, TX	Diana Zoren (971) 255-4965 zoren@westernenergy.org	https://www.westernenergy.org/programs/joint-use/	\$799
Operations	Connecticut State Colleges and Universities	Introduction to Natural Gas Distribution	This course introduces fundamentals of the natural gas industry and operations of a natural gas distribution system. Participants will work through modules that provide a basic understanding of natural gas distribution, including: a history and structure of the natural gas industry; structure of utility companies; properties of natural gas; fundamentals of natural gas pipelines and their construction; how natural gas distribution systems are operated and maintained; quality and safety in the industry; and careers in the natural gas industry.	Online	(860) 723-0000	http://www.ct.edu/academics/online	Free
Operations	Gas Technology Institute	Uprate the Pressure on a Pipeline System	This module describes the process of uprating a segment of a pipeline to operate at a higher maximum allowable operating pressure (MAOP). Topics include uprating rationale, factors, regulations, and the importance of having an uprating plan and documentation. Trainees learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Operations	Gas Technology Institute	Control/Monitor Gas Pressure and Flow	This module defines the procedures and responsibilities of gas control room operations and management, including SCADA system operation and gas measurement equipment. Trainees learn about monitoring flow and pressure indicators; responding to alarms; ensuring adequate pressures throughout the distribution system; and remote opening/closing of valves. Regulatory requirements for control room operations are included. Trainees also learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Operations	Gas Technology Institute	Operate a Pipeline Compressor Station	This module describes the operational startup and shutdown methods of a compressor station, including modes of operation, levels of safety protection, and regulatory and operational requirements. Specific topics include unit and pressurization permissives, set points, speed controls, and communication links. Trainees also learn to recognize and respond to abnormal operating conditions.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Operations	Gas Technology Institute	Gas Controller Training for Distribution and Transmission	The Final Rule for Control Room Management, effective February 1, 2010, is an amendment to the Federal pipeline safety regulations to address human factors associated with control room operations. It also requires operators to establish a training program for controllers to carry out their roles and responsibilities, recognize and respond to abnormal operations, and understand the operation of the pipeline system. During this four-day course, get a fundamental understanding of natural gas equipment, how it operates, and how it impacts the pressure and flow of gas. This is an interactive workshop with both computer simulations to demonstrate basic gas hydraulics and scenarios of abnormal operating conditions that controllers must recognize and respond to. The simulations are supported by DNV GL Pipeline Simulation software developed by GL Noble Denton.	See website for details	Joe Carlstrom Joe. Carlstrom@gastechology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-distribution-training/	\$2,250

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Operations	Gas Technology Institute	Gas Distribution Operations	During the four and a half-day course, become a more productive employee by upgrading your skills and knowledge in gas distribution operations. Build or expand your knowledge base in the construction, operation, and maintenance of modern gas distribution systems. Apply fundamental technical concepts and relationships to real-life work situations. Discussions and class exercises cover codes and standards, leak inspection, emergency response, meters, pressure regulation, and much more. Economic and safety issues are emphasized throughout the discussions.	October 28-November 1, 2019 Rosemont, IL	Joe Carlstrom Joe. Carlstrom@gastechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-distribution-training/	\$2,450
Operations	Gas Technology Institute	Gas Transmission Operations	During this four and a half-day course, expand your knowledge of transmission systems and important related issues through interactive case studies and expert guidance.	September 23-27, 2019 Rosemont, IL	Joe Carlstrom Joe. Carlstrom@gastechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/classroom-training/	\$2,450
Operations	Gas Technology Institute	Perform Vacuum Excavation	This module defines the soil extraction methods (air and hydro) used in damage prevention, including equipment, techniques, and safety requirements. The procedural guidelines are from a CGA best practice perspective. The module also features a brief video on equipotential safety. Trainees are asked to consider how to respond to an abnormal operating condition.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Operations	Gas Technology Institute	Perform Keyhole Technology	This module describes the benefits and safety implications of keyhole technology in performing excavation. The six-step process is introduced, and various above-ground procedural activities using this technology are identified. The module features a brief keyhole technology video. Trainees are asked to consider how to respond to an abnormal operating condition.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Operations	Gas Technology Institute	Backfill an Excavation	This module covers the need for proper backfill and compaction procedures in damage prevention. It includes the importance of protecting and supporting pipeline facilities as well as Dynamic Cone Penetrometer (DCP) testing for soil compaction verification. Trainees are asked to consider how to respond to an abnormal operating condition.	Online	Vanessa Oneil Vanessa. oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Operations	Northeast Gas Association	Annual Gas Operations School	The Annual Gas Operations School & Exhibit of the Northeast Gas Association (NGA) is one of the best-attended operations events in the Eastern United States. Held each June, the school provides education, hands-on-training, a major vendor exhibit, and industry networking.	June 2-5, 2020	Eileen Sitte esitte@northeastgas.org	https://www.northeastgas.org/eve-gas-ops-school.php	
Operations	Northeast Gas Association	NGA Contractor Conference	NGA's annual Contractor Workshop is a great opportunity for contractors and suppliers to meet with utility companies to discuss the regional business environment.	See website for details	Dan Dessanti ddessanti@northeastgas.org Eileen Sitte esitte@northeastgas.org	https://www.northeastgas.org/events.php	

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Operations	Stark State College	Automation and Robotics	Robotics and automation is a growing career field full of choices. The skills are in demand everywhere in America's manufacturing, and expanding into nontraditional markets, like hospitals and health care. Other opportunities include building, farming, food processing, homeland security and the military. And then there's the future, with new jobs that don't even exist today, but requiring advanced skill sets. Stark State's automation and robotics associate degree associate program will give you the high-value skills for career success through hands-on training. You'll train on Allen/Bradley family PLCs and Fanuc robots learning; AutoCad, visual basic programming, PC repair and maintenance, common industrial controls, industrial sensor and instrumentation, programming and troubleshooting PLCs, and setup and programming industrial robotics.	See website for details	Daniel Schweitzer (330) 494-6170 Ext. 5662 dschweitzer@starkstate.edu admissiona@starkstate.edu (330) 494-6170 1 (800) 797-8275	https://www.starkstate.edu/academics/programs/automation-and-robotics-technology/	
Operations	Stark State College	Computer Numerical Control (CNC) Technical Certificate	This state-accredited computer numerical control (CNC) technical certificate is designed to prepare the student with the appropriate skills needed to work in today's world of computer numeric controlled precision machining. This program is designed for both the individual returning to add to their existing skills and those entering the CNC precision machining field for the first time. Upon successful completion of the CNC technical certificate program, the individual will have approximately one half the necessary credits towards an associate of applied science in industrial technology.	See website for details	Daniel Schweitzer (330) 494-6170 Ext. 5662 dschweitzer@starkstate.edu admissiona@starkstate.edu (330) 494-6170 1 (800) 797-8275	https://www.starkstate.edu/academics/programs/computer-numerical-control-cnc-one-year-technical-certificate/	
Operations	Stark State College	Predictive and Preventive Maintenance Tehnology Certificate	This preventive and predictive maintenance technology technical certificate, approved by the Ohio Department of Higher Education, has been prepared for the individual who is interested in the field of preventative and predictive maintenance. This certificate will cover non-destructive methods of evaluating manufacturing and plant equipment. Program will introduce the individual to infrared scanning, ultrasonic analysis, oil/lubrication testing, and vibration analysis.	See website for details	Daniel Schweitzer (330) 494-6170 Ext. 5662 dschweitzer@starkstate.edu admissiona@starkstate.edu (330) 494-6170 1 (800) 797-8275	https://www.starkstate.edu/academics/programs/preventive-and-predictive-maintenance-technology-one-year-certificate/	
Petroleum	Stark State College	Petroleum Technology - Production Technician	The petroleum technology – production technician major will provide the learner with the knowledge to troubleshoot and perform preventative maintenance on producing well sites. Students will obtain knowledge of production equipment, recovery techniques, surface handling of produced fluids, instrumentation found at well sites and environmental responsibility, regulations and safety. The production technician certificate prepares the student for the daily monitoring and operations of a producing well site. Emphasis will be placed on meter reading, gauging, well site instrumentation and maintenance of equipment including gathering lines to prevent spills and safety or environmental issues.	See website for details	Daniel Schweitzer (330) 494-6170 Ext. 5662 dschweitzer@starkstate.edu admissiona@starkstate.edu (330) 494-6170 1 (800) 797-8275	https://www.starkstate.edu/academics/programs/petroleum-technology-production-technician/	
Petroleum	The University of Texas at Austin Petroleum Extension	Petroleum Fundamentals	Covers the basics of petroleum, starting with industry terminology, geology, exploration, and leasing. Reviews drilling, production, transportation, equipment usage, and operating procedures upstream, midstream, and downstream. Addresses safety, economics and regulatory concerns.	November 11-15, 2019 Houston, TX	info@petex.utexas.edu	https://petex.utexas.edu/index.php/training/281	\$2,695

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Petroleum	The University of Texas at Austin Petroleum Extension	The Rig School - Introduction to Offshore Operations	<p>Course content:</p> <ul style="list-style-type: none"> - Geology and geophysics in offshore exploration - Offshore lease acquisition - Offshore drilling production - Well planning and business aspects - Maritime and state law and offshore regulations - Offshore storage and terminals - Offshore catastrophes and emergency response - Insurance for offshore operation - Economics of offshore exploration and development 	October 21-25, 2019 Houston, TX	info@petex.utexas.edu	https://petex.utexas.edu/index.php/training/295	\$2,775
Public Safety	Gas Technology Institute	Install Shoring in an Excavation	This module covers shoring protective system requirements for aluminum hydraulic shoring and timber shoring. Topics include soil classification, shoring equipment, and installation steps as well as the shoring removal process. The module features a brief video demonstrating the installation of aluminum vertical hydraulic shoring.	Online	Vanessa Oneil Vanessa.oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Public Safety	Gas Technology Institute	Locate Underground Pipelines	This module promotes an understanding of locator best practices and responsibilities, including the One-Call Center, use of information sources, and marking requirements. It shows trainees how to perform locator responsibilities in accordance with applicable state code requirements and company operations and maintenance procedures. Locate equipment and conductive and inductive locate methodologies are explained.	Online	Vanessa Oneil Vanessa.oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Public Safety	Gas Technology Institute	Patrol and Maintain a Pipeline Right-of-Way	This module covers the patrol and inspection requirements for buried and above-ground pipe facilities, including identification of any safety-related conditions along the pipeline right-of-way and ensuring that proper marking requirements are in place.	Online	Vanessa Oneil Vanessa.oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Public Safety	Gas Technology Institute	Communicate Public Awareness	This module identifies the regulatory requirements for pipeline operator public awareness programs. Public education and damage prevention are vital to safety. API RP 1162 is reviewed, along with message delivery methods and communication components.	Online	Vanessa Oneil Vanessa.oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Public Safety	Gas Technology Institute	Regulator Operation and Fundamentals	This module describes the essential elements associated with a self-operated regulator and promotes a basic understanding of the operational characteristics of a gas service regulator. It includes the three essential elements?restricting, measuring, and loading?and the performance factors associated with a self-operated regulator, with an emphasis on system safety.	Online	Vanessa Oneil Vanessa.oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95
Public Safety	Gas Technology Institute	Operate and Test Overprotection Equipment	This module focuses on the various methods of overpressure protection, including relief valves, wide-open monitoring, working monitor, series regulation, and slam shut devices. Trainees learn the advantages and disadvantages of overprotection operation and how to perform operational tests on overprotection devices. The module also covers operational testing steps to check equipment integrity. Abnormal operations and the proper responses are covered.	Online	Vanessa Oneil Vanessa.oneil@gatechnology.org publicrelations@gti.energy 1 (847) 768-0500	https://www.gti.energy/training-events/natural-gas-field-skills-online-training/	\$95

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Public Safety	Western Energy Institute	Safety Summit	Safety is a paramount issue within the utility industry. Safety professionals work tirelessly to manage risk, avoid incidents and ensure safety through a variety of programs and initiatives geared toward employees and consumers. This summit is designed for gas and electric utility safety professionals, and spans across three unique, topical tracks: Safety Strategy + Policy, Electric Safety Work Methods, and Gas Safety Work Methods. Content is designed to promote safety culture through discussions related to the education and training that can influence utility operations, as well as address some of the challenges and successes associated with developing strategy.	August 27-29, 2019 Calgary, AB	Beverly Jones Woolf joneswoolf@westernenergy.org (503) 688-2790	https://www.westernenergy.org/programs/safety-summit/	Member: \$599 Non member: \$1,199
Public Safety	Midwest Energy Association	Occupational Health and Safety Administration - EnergyU Course Library	Use to train and test personnel on requirements related to Safety and OSHA compliance.	Online	John Gann johng@midwestenergy.org mea@midwestenergy.org (651) 289-9600	https://www.meenergy.org/learning/energyu/libraries/osh/	

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Compliance	American Association of Pipeline Inspectors	Pipeline Construction Inspector	<p>The API 1169 Pipeline Construction Inspector certification program was developed in cooperation with industry experts in order to establish an industry-wide credential for the inspection of new construction of on-shore pipelines.</p> <p>This certification is open to qualified applicants who are seeking to become certified inspectors in API-1169: Recommended Practice for Basic Inspection Requirements - New Pipeline Construction.</p>	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/api1169	
Compliance	American Petroleum Institute	Risk Based Inspection	<p>API welcomes highly specialized inspectors, engineers, other professionals across the entire petrochemical industry to obtain the API 580 Risk Based Inspection certification as a validation of their profound knowledge of Risked Based Inspection (RBI).</p>	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/api580#tab_qualification	
Compliance	American Petroleum Institute	Internal Auditor Q1	<p>The API Auditor Certification Program includes six certification products on three levels of proficiency. Each of these three certification levels can be obtained in either API Spec Q1 or Spec Q2.</p> <p>These auditor certifications allow both company personnel and self-employed individuals to apply for, train, test, and become certified in various quality management related certification programs by an independent body - API. Certified individuals will obtain recognition both within their own company and within the oil and gas industry.</p>	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/apiiaq1	
Compliance	American Petroleum Institute	Internal Auditor Q2	<p>The API Auditor Certification Program includes six certification products on three levels of proficiency. Each of these three certification levels can be obtained in either API Spec Q1 or Spec Q2.</p> <p>These auditor certifications allow both company personnel and self-employed individuals to apply for, train, test, and become certified in various quality management related certification programs by an independent body - API. Certified individuals will obtain recognition both within their own company and within the oil and gas industry.</p>	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/apiiaq2	
Compliance	American Petroleum Institute	Auditor Q1	<p>The API Auditor Certification Program includes six certification products on three levels of proficiency. Each of these three certification levels can be obtained in either API Spec Q1 or Spec Q2.</p> <p>These auditor certifications allow both company personnel and self-employed individuals to apply for, train, test, and become certified in various quality management related certification programs by an independent body - API. Certified individuals will obtain recognition both within their own company and within the oil and gas industry.</p>	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/apiaq1#tab-about	
Compliance	American Petroleum Institute	Auditor Q2	<p>The API Auditor Certification Program includes six certification products on three levels of proficiency. Each of these three certification levels can be obtained in either API Spec Q1 or Spec Q2.</p> <p>These auditor certifications allow both company personnel and self-employed individuals to apply for, train, test, and become certified in various quality management related certification programs by an independent body - API. Certified individuals will obtain recognition both within their own company and within the oil and gas industry.</p>	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/apiaq2	

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Compliance	American Petroleum Institute	Lead Auditor Q1	<p>The API Auditor Certification Program includes six certification products on three levels of proficiency. Each of these three certification levels can be obtained in either API Spec Q1 or Spec Q2.</p> <p>These auditor certifications allow both company personnel and self-employed individuals to apply for, train, test, and become certified in various quality management related certification programs by an independent body - API. Certified individuals will obtain recognition both within their own company and within the oil and gas industry.</p>	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/apilaq1	
Compliance	American Petroleum Institute	Lead Auditor Q2	<p>The API Auditor Certification Program includes six certification products on three levels of proficiency. Each of these three certification levels can be obtained in either API Spec Q1 or Spec Q2.</p> <p>These auditor certifications allow both company personnel and self-employed individuals to apply for, train, test, and become certified in various quality management related certification programs by an independent body - API. Certified individuals will obtain recognition both within their own company and within the oil and gas industry.</p>	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/apilaq2	
Compliance	Midwest Energy Association	Train The Evaluator	The Train the Evaluator class is tailored to meet the needs of the operators of natural gas pipelines who must comply with the federally mandated operator qualifications program. This course provides information on the theory of evaluation, the practice of conducting credible performance evaluations, and break out sessions with peers.	See website for 2020 dates	Richard Stump (651) 289-9600 mea@midwestenergy.org (651) 289-9600	https://connect.meaenergy.org/events/calendar	
General	American Petroleum Institute	Refractory Personnel	<p>The API 936 Refractory Personnel certification is designed to identify candidates possessing the knowledge of API STD 936 Refractory Installation Quality Control Guidelines. These are guidelines for the installation quality control of monolithic refractory linings and may be used to supplement owner specifications.</p> <p>API 936 certification raises the bar of competence for qualified personnel, who must have knowledge of installation, inspection, testing and repair of refractory linings. It provides the industry with a prequalified set of individuals prepared for the job and readily identifies those who are qualified to do the job.</p>	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/api936	
General	Western Energy Institute	Women in Leadership - Mentoring + Development	This mentorship program addresses some of the opportunities and challenges that women face working in the energy industry, advocates for workplace inclusion and teamwork, and discusses critical issues related to attracting and maintaining a diverse workforce.	See website for details	Anna Sanger Reed sangerreed@westernenergy.org (503) 688-2795	https://www.westernenergy.org/women-in-leadership-program/	
General	Western Energy Institute	Annual Meeting	This three-day event brings the West's natural gas and electric utility executive community together to encourage discussion and foster new opportunities. Learn from subject matter experts regarding imminent opportunities and the challenges pressing utilities to adapt and flex in uncharted territories for best-in-class utility management. Topics covered in recent years include customer relations, global economic insights, new business models for utilities in a carbon constrained world, opportunities and challenges of big data, energy supply and demand forecasting, and visions for the utility of the future. This meeting coincides with the semi-annual WEI Board Meeting and the Business Acumen for Emerging Leaders team presentations.	September 15-17, 2019 Carlsbad, CA	Anna Sanger Reed sangerreed@westernenergy.org (503) 688-2795	https://www.westernenergy.org/programs/annual-meeting/	Member: \$1,049

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
General	Western Energy Institute	Business Acumen for Emerging Leaders: Opportunity - Session Four	An intensive training for high potential managers and supervisors through exposure to broad perspectives of the utility business, its interrelationships and successful leadership strategies. This program is designed by a utility-driven Curriculum Development Team, and directed by facilitators, and executive and alumni mentors. Program sessions are hosted by member utilities and topics are presented by executives, subject matter experts and formal instructors. The first four sessions focus on leadership development, industry perspectives, customer connections, communications and strategic planning. The program includes a capstone project which is delivered to industry leaders at the WEI Annual Meeting. Participants build a broad peer network that continues well into their future careers.	August 7-9, 2019 Vancouver, BC	Christopher Lee lee@westernenergy.org (971) 255-4967	https://www.westernenergy.org/programs/business-acumen-for-emerging-leaders-opportunity-session-four-3/	
General	Western Energy Institute	Business Acumen for Emerging Leaders: Challenge - Session Four	An intensive training for high potential managers and supervisors through exposure to broad perspectives of the utility business, its interrelationships and successful leadership strategies. This program is designed by a utility-driven Curriculum Development Team, and directed by facilitators, and executive and alumni mentors. Program sessions are hosted by member utilities and topics are presented by executives, subject matter experts and formal instructors. The first four sessions focus on leadership development, industry perspectives, customer connections, communications and strategic planning. The program includes a capstone project which is delivered to industry leaders at the WEI Annual Meeting. Participants build a broad peer network that continues well into their future careers.	August 7-9, 2019 Toronto, Ontario	Beverly Jones Woolf joneswoolf@westernenergy.org (503) 688-2790	https://www.westernenergy.org/programs/business-acumen-for-emerging-leaders-challenge-session-four-3/	
Inspection	American Petroleum Institute	Pressure Vessel Inspector	Certified API 510 Pressure Vessel inspectors must have a broad knowledge base relating to maintenance, inspection, repair, and alteration of pressure vessels. The API 510 examination is designed to determine if individuals have such knowledge. This certification program benefits employers and the industry as a whole by helping to: - Improve management control of process unit operation, repair, and maintenance - Reduce the potential for inspection delays - Provide a continued high level of safety through the use of highly specialized and experienced inspectors	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/api510	
Inspection	American Petroleum Institute	Piping Inspector	Certified API 570 Piping inspectors must have a broad knowledge base relating to maintenance, inspection, alteration and repair of in-service metallic piping systems. The API 570 examination is designed to determine if applicants have such knowledge. This certification program benefits employers and the industry as a whole by helping to: - Provide a continued high level of safety through the use of inspectors specialized in process piping - Improve management control of process unit inspection, repair, alteration and rerating - Reduce the potential for inspection delays resulting from regulatory requirements	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/api570	

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Inspection	American Petroleum Institute	Aboveground Storage Tank Inspector	<p>The American Petroleum Institute initiated an API 653 Aboveground Storage Tank Inspector Certification Program with the participation of storage tank owners and users. It establishes a uniform national program that assists state and local governments in aboveground storage tank regulations.</p> <p>The API 653 Aboveground Storage Tank Inspector must have a broad knowledge base relating to tank inspection and repair of aboveground storage tanks, and will satisfy the minimum qualifications specified in API Standard 653, Tank Inspection, Repair, Alteration, and Reconstruction.</p>	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/api653	
Inspection	American Petroleum Institute	Tank Entry Supervisor	<p>API certified TES Tank Entry Supervisors must have knowledge of above ground petroleum storage tanks and their construction. They will also have the knowledge to plan, prepare for and address potential hazards during the tank entry, ventilation and entire job process of tank cleaning and maintenance.</p> <p>Scope of knowledge for the TES certification consists of:</p> <ul style="list-style-type: none"> - Tank decommissioning isolation - Ventilation - Atmospheric testing and analysis - Work permitting - OSHA Confined Space regulatory requirements - Emergency response - Tank recommissioning 	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/apites	
Inspection	American Petroleum Institute	Pipeline Inspector	<p>The API 1169 Pipeline Construction Inspector certification program was developed in cooperation with industry experts in order to establish an industry-wide credential for the inspection of new construction of on-shore pipelines.</p> <p>This certification is open to qualified applicants who are seeking to become certified inspectors in API-1169: Recommended Practice for Basic Inspection Requirements - New Pipeline Construction.</p>	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/api1169	
Inspection	American Petroleum Institute	Source Inspector Fixed Equipment	<p>The API Source Inspector certification program was developed in cooperation with industry experts. It qualifies individuals (employees of end-users and individual contractors) who perform the important task of supplier quality surveillance.</p> <p>The Source Inspector has been defined as the individual responsible for:</p> <ul style="list-style-type: none"> - Examining fabricated and manufactured equipment and materials at a supplier's facility - Confirming that the supplier's quality management system is being utilized effectively <p>SIFE - Source Inspector Fixed Equipment focuses primarily on pressure containing equipment and structural equipment, including: vessels, columns/towers, heat exchangers, piping, valves, pressure relief devices, tubulars, and associated structural fabrications.</p>	See website for details	(202) 682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/apisife	

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Inspection	American Petroleum Institute	Source Inspector Rotating Equipment	<p>The API Source Inspector programs qualify individuals who perform the important task of quality surveillance of materials, equipment and fabrications at the supplier/vendor level in the oil, petrochemical and gas industries.</p> <p>Inspectors act on behalf of purchasers to:</p> <ul style="list-style-type: none"> - Examine fabricated and manufactured equipment and materials at a supplier's facility - Confirm that the supplier's quality management system is being utilized effectively <p>API SIRE - Source Inspector Rotating Equipment is the second certification in the Source Inspector Suite. This certification, developed in cooperation with industry experts, focuses primarily on Rotating Equipment, including but not limited to: pumps, gears, compressors, turbines and associated appurtenances.</p>	See website for details	202-682-8000	https://www.api.org/products-and-services/individual-certification-programs/certifications/apisire	
Inspection	Midwest Energy Association	Construction Inspector Training	<p>Pipeline owners/operators face many challenges today in pipeline construction, including increased regulatory challenges, multiple pipeline replacement projects, and the changing workforce. The integrity of the pipeline systems is under increased stakeholder scrutiny. This training will ensure your personnel have the knowledge, skills, and ability to conduct effective inspections of the infrastructure assets. The public depends on our pipeline systems. Sending your employees to the MEA Construction Inspector Training assures that you have trained inspectors providing proper inspection.</p> <p>The Construction Inspector is a critical member of the onsite crew, and it is a job that is required for transmission and distribution pipeline construction projects. The MEA Construction Inspector Training provides the information necessary for an individual to perform inspector activities safely and effectively. By the end of the training attendees will have gained the knowledge needed to serve in the construction inspector role.</p>	See website for 2020 dates	<p>John Gann johng@midwestenergy.org</p> <p>mea@midwestenergy.org (651) 289-9600</p>	https://connect.meenergy.org/events/calendar	
Leadership	American Gas Association	Executive Leadership Development Program	<p>During the executive leadership development training program you will be able to closely interact with true experts who work on Capitol Hill, the White House and other government agencies. Ask them questions, discuss their methods and gain a thorough understanding of how to successfully navigate the political and regulatory maze that is Washington, D.C.</p>	See website for 2020 dates	<p>Kevin Hardardt khardardt@aga.org (202) 824-7250</p> <p>Amaris Rrozzo atrozzo@aga.org (202) 824-7121</p>	https://www.aga.org/events-community/upcoming-events/	
Leadership	American Gas Association	Next Level leadership Women's Program	<p>AGA's Next Level Leadership Women's Program is developed to complement current AGA member company programs. AGA hosts the Next Level Women's Leadership event each year, bringing together women from across the country who work in a variety of disciplines at natural gas utility companies to focus on growing as leaders and planning for their future.</p>	November 6-7, 2019 Washington, DC	<p>Jennifer O'Shea http://www.cvent.com/Events/Info/EmailToPlanner.aspx?e=8762f183-8035-4128-a65c-a552c6fd66f5</p>	https://www.aga.org/events-community/events/2018-next-level-leadership-womens-program/	

Category	Organization	Event/Resource	Description	Date/Location	Contact	Link	Price
Leadership	Midwest Energy Association	Field Leader Training	<p>Give your line team leaders practical, hands-on experience in how to effectively lead their crews with this energy industry focused, two-day course that is perfect for Foremen, Crew Leaders, Leads, Craft and Shift Supervisors.</p> <p>Instead of covering the technical aspects of their work, we will teach the leadership skills they need to effectively direct the activities of their crew and communicate with management. The situations and cases will be similar to those they encounter on the job all the time. The skills and knowledge they will gain will relate specifically to effective leadership. Attendees will receive leadership tools they can immediately apply back on the job in areas such as planning work, leading teams, and improving safety.</p>	September 24-25, 2019 Bloomington, MN	<p>John Gann johng@midwestenergy.org</p> <p>mea@midwestenergy.org (651) 289-9600</p>	https://connect.meenergy.org/events/event-description?CalendarEventKey=cf97cb6b-c5f7-47f2-812e-bd98dab12a6d	<p>Member: \$725 Non member: \$895</p>
Leadership	Northeast Gas Association	Professional Development/Leadership Training	<p>This program consists of four quarterly two-day workshops with limited enrollment to ensure a highly interactive learning experience. If you are a mid- to upper-level manager in the increasingly competitive Northeast energy industry who is looking to become a more effective leader, this program has been developed specifically for you. Featuring industry executives, college professors and management consultants, the workshops offer a variety of sessions that seek to impart essential leadership skills and diverse industry knowledge.</p>	See website for 2020 dates and registration deadline	<p>Steve Leahy leahy@northeastgas.org</p>	https://www.northeastgas.org/professional-development.php	
Leadership	Western Energy Institute	Chief Information Officer	<p>CIOs navigate everyday challenges related to grid modernization, cybersecurity and data integrity. In addition to the natural leadership pressures of any executive position, CIOs also lead the charge for building visionary plans to embrace emerging technology, oversee policy development and direct the implementation of systems and processes for the control and exchange of information. As such, CIOs increasingly seek novel approaches to enhance efficiency, responsiveness, innovation and adaptability. This forum provides a unique opportunity for utility CIOs to come together in an exclusive peer environment to address these challenges.</p>	September 17-18, 2019 Carlsbad, CA	<p>Amy Nye nye@westernenergy.org (503) 688-2794</p>	https://www.westernenergy.org/programs/chief-information-officer-2/	<p>Member: \$479</p>