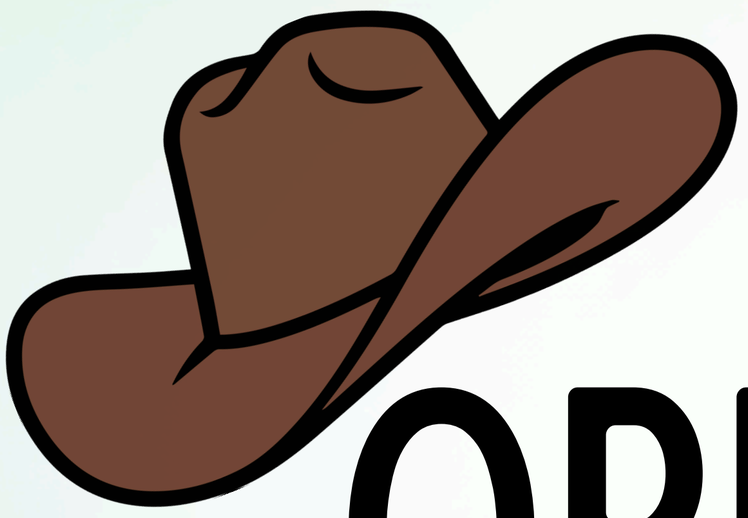
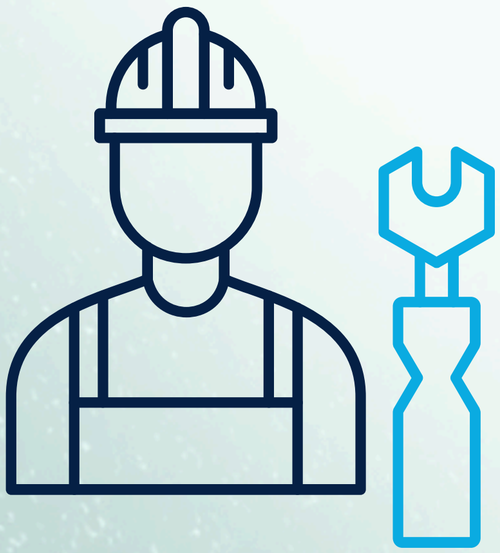
NGA

NORTHEAST GAS ASSOCIATION



GAS OPERATIONS SCHOOL



JUNE 2-5, 2026

Bryant University

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GAS OPERATIONS CONFERENCE

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June 2026

Welcome!

We look forward to welcoming you to the ***70th annual NGA Gas Operations School***. With so many new professionals entering the natural gas industry and significant change underway across technology, strategy, and regulation, this year's School is more important than ever. I am proud to serve as Chair of this year's program, which provides a unique and valuable opportunity to share the knowledge that helps promote safety and reliability throughout our region.

As is tradition, the opening session will take place on Tuesday afternoon, allowing time for registration, networking in the exhibit hall, and the famous clambake later that evening. We are also pleased to welcome Rhode Island Energy President Greg Cornett as this year's keynote speaker. His remarks on the critical interdependence of electric and gas systems, and the future of the natural gas industry, promise to be a highlight of the week.

This year's School features several exciting additions, including a new Utility Business Operations Track and Wednesday morning Technology Demonstration Sessions. As always, the program offers a full schedule of classroom instruction, hands-on technical sessions, vendor exhibits, social activities, and industry networking. With courses offered across a variety of tracks, attendees can build a schedule tailored to their interests and goals.

This year's tracks include:

- Pipeline Safety, Innovation & Management
- Utility Business Operations
- Customer Service
- Construction
- Distribution
- Measurement, Control & System Design
- Gas Supply, Storage & Transmission

Our volunteer instructors bring a wealth of knowledge, experience, and practical skill to the classroom, but the School offers far more than coursework alone. Vendor exhibits provide opportunities to explore both new and established technologies, take part in demonstrations, and discuss industry challenges and opportunities with experienced professionals. Offsite tours offer another valuable way to broaden your perspective and deepen your knowledge. This year's tour options include visits to the Massachusetts Fire Academy and Hopkinton LNG, as well as the Eversource training facility in Shrewsbury, Massachusetts.

On Friday morning, we will continue our popular hands-on workshop, which has been expanded this year. In addition to pipe-joining sessions, attendees will also be able to participate in construction and corrosion demonstrations.

You will also have many opportunities to connect with colleagues through events such as

Tuesday’s meet-and-greet in the exhibit hall, Wednesday’s Gas Rodeo, and Thursday evening’s softball game.

With so many opportunities to learn, connect, and engage, I am confident that you will find this year’s School both educational and enjoyable. Our committee and sponsors have worked hard to create an outstanding experience, and we look forward to welcoming you to campus.

Very truly yours,

Laeyeng Hunt

Laeyeng Hunt
Rhode Island Energy
2026-2027 Gas Operations School Committee Chair

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KEYNOTE SPEAKER
TUESDAY 4PM
BELLO GRAND HALL

THIS COUNTS AT ONE SESSION FOR A SCHOOL CERTIFICATE

70TH NGA GAS OPERATIONS SCHOOL

June 2-5, 2026
Bryant University, Smithfield, RI

Dont' miss out -
Level up your skills this year!

75 Classes Across 7 Tracks

Exhibit Hall with +100 Vendors

Enhanced Hands on Workshop

New - Utility Business Operations Track

New - Technology Demonstrations with Industry Leading Providers

Field Demonstrations

Gas Rodeo - *Sponsored by Mulcare Pipeline Solutions*

New England Clam Bake, Softball, Volleyball, & More Networking Fun!

LEARN MORE & REGISTER

www.northeastgas.org

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70TH NGA GAS OPERATIONS SCHOOL

June 2-5, 2026
Bryant University, Smithfield, RI

Discover the business drivers, big-picture challenges, & real-world decisions shaping utility operations today. Register Today!

Classes Include

- **Understanding the Utility Business Model**
- **Contract Management**
- **Understanding the Utility Bill & Energy Affordability**
- **Northeast Supply Constraint Challenges**
- **Utility–Contractor Relations**
- **Understanding the Rate Case Process**
- **Emergency Planning & Mutual Aid**
- **Project Management**
- **Utility Budget Setting**
- **Natural Gas Public Safety Awareness**
- **Fundamentals of the Energy Policy Environment in the Northeast**

New 2026 Track :
Utility Business Operations

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LEARN MORE & REGISTER

www.northeastgas.org

And don't miss out on the Exhibit Hall, Clam Bake, Softball, Volleyball, & More Networking Fun!

Technology Demonstrations at NGA Gas Operations School

How it Works:

- On Wednesday, June 3, during the 8-9am & 10:30-11:30am classes, school participants may elect to sign up to attend Tech Demonstrations led by industry suppliers, vendors & manufacturers.
- Each demo will be 15 minutes long.
- Each session will allow for a maximum of 10-15 participants.
- School participants that attend 3 demonstrations will be provided with a class credit.

Don't miss your chance to learn from industry experts about cutting-edge technology and industry leading practices, sign up at the registration desk at the Gas Operations School!

Questions? Contact NGA at NGAEvents@northeastgas.org

NGA NORTHEAST GAS ASSOCIATION

2026 Gas Operations School Course Overview
Wednesday, June 3rd Sessions & Times

2026	Pipeline Safety, Innovation & Management Building: Fisher Student Center Room: 2AB	Utility Business Operations Building: AIC Room: 212	Customer Service Building: Fisher Student Center Room: Papitto	Distribution Building: AIC Room: 222	Construction Building: Fisher Student Center Room: Heritage	Gas Supply, Storage & Transmission Building: Bello Room: Grand Hall	Measurement/Control/ System Design Building: AIC Room: 223
8:00 - 9:00	A Fresh Perspective of Pre-Job Briefs; Through the Looking Glass of Intent Based Leadership Instructor: Peter Russian	Understanding the Utility Business Model Instructor: Dan Cote	Residential Regulators Instructor: Tim Lonergan	Gas Operations System Operating Procedures Instructors: Jenny Angelari and Steve Dombrowski	Pressure Testing Instructor: Aaron Audette	Introduction to Gas Supply & Control Instructor: John Salemi and Kelly Barahona	Bridge & Rail Crossing Design & Construction Instructor: Derek Smith
9:15 – 10:15 Break with the Exhibitors							
10:30 – 11:30	Re-visiting Management of Change; Exploring Practical Aspects of How, Where & When MOC is Applied Instructor: Kathleen Muroski	Contract Management Instructor: Gregory Shea	Atmospheric Corrosion Inspection and Classification Instructor: Mike Harmon	Kleiss Flow Stopping Including GoVAC Cross Compression Instructor: John Zuccaro	Facility Locating/Class Instructor: Eric Denslow and Mike Wright	New Technology at the City Gate Instructor: Ben Bauer and Scott Laplante	AC Mitigation Instructor: Gary Barton
11:45 -1:00 LUNCH WITH THE EXHIBITORS: *This Counts as a Session*							
1:15 – 2:15	PSMS Scalability – A Refresher on How to Apply the Tools of PSMS Across a Variety of Organizations & Operations Instructor: Mark Hereth and Brian Roy	AGA Fueling Our Workforce Part I Instructor: Kara Riba and Sue Forrester	Meter Installation Instructor: Scott Crocker	Prevention & Mitigation of Gas System Over-Pressurization Instructor: Mark Dupuis	Facility Locating/Class (Hands-on) Instructor: Eric Denslow and Mike Wright	Introduction to Natural Gas Markets and Prices and Happenings Instructor: Chris Mullen	Portable LNG as a Supply Source Instructor: Carl Hogue
Break							
2:30 – 3:30	Information Sharing & Lessons Learned – Transforming the Way We Learn from One Another Instructor: Nathan Schafer and Mubasher Ahmed	AGA Fueling Our Workforce Part II Instructor: Kara Riba and Sue Forrester	Incident Investigation for First Responders Instructor: Brad Thomas	Job Site Safety – Excavation & Trenching Instructor: Matt Damato	Pigging Distribution Piping Instructor: Steve Dombrowski	RNG as a Supply Source, the Why and How Instructor: Ryan Hess	Residential and Commercial Regulators: Sizing and Selection Instructor: Jason Rosen

Technology Demos
New benefit to Gold & Silver Sponsors

Where: MAC
When: Wednesday from 8-9am and 10:30-11:30am
Who: School Participants and Sponsors
What: Opportunity to showcase products and services to an engaged group of school participants.
How: Sign ups will be in the NGA app. Each demo will be 15 minutes long, for 10-15 participants.

Every three demos = 1 scan

Important: You must complete 15 sessions to receive a Course Completion Certificate.

Gas Rodeo
Sponsored By: Mulcare Pipeline Solutions

Where: Parking Lot C
When: Wednesday from 4pm - 6pm
Who: Anyone
What: Join your colleagues for food, fun, competition & prizes!

Thursday, June 4th Bus Tours & Times

Bus Tours: Sign Up at Registration Tuesday & Wednesday

- **Tour – Customer Service – Half Day to Shrewsbury, MA**
- **Tour - Gas Supply – MA Firefighting Academy and LNG Tour, Stowe, MA**

PPE Required for All Tours & Workshops:
Attendees must bring long pants, sturdy work shoes, hard hat, safety glasses, safety vests, and photo ID to gain entry!

Thursday, June 4th Sessions & Times

2026	Pipeline Safety, Innovation & Management	Utility Business Operations	Customer Service	Distribution	Construction	Gas Supply, Storage & Transmission	Measurement/Control/ System Design
8:00 – 9:00	Leak Detection Technology and Advancements Instructor: Brad Thomas	Northeast Supply Constraint Challenges Instructor: Jim Stephens	Dealing with Code Violations Instructor: David Brogan	Damage Prevention Instructor: Chris Clark	Understanding static electricity in natural gas piping systems Instructor: Dirk Smith	Basics of Field Monitoring & Controlling of Pressure Flow Part 1 Instructor: Scott Laplante	Distribution System Modelling Instructor: Kasey Elkin
9:15 – 10:30	Measuring Methane Emissions Across a Gas Distribution Utility's Network with Geospatial Analytics Instructor: Sean Donegan	Understanding the Rate Case Process Instructor: Jodi Harris	Gas Pipe Sizing Instructor: Dan Lyne	Trenchless Technology (Part 1) Instructor: George Ragula	Pipe Squeezing & Flow Control Instructor: James Taylor	Basics of Field Monitoring & Controlling of Pressure Flow Part 2 Instructor: Scott Laplante	Fundamentals of District Regulator Station Design Instructor: Mark Lamping
BREAK							
10:45-12:00	Network Geothermal Systems Instructor: Eric Bosworth	Utility-Contractor Relations Instructor: Mike Smith	Carbon Monoxide Hazards and Responses Instructor: Scott Crocker	Trenchless Technology (Part 2) Instructor: George Ragula	Plastic Pipe Joining (Part 1) Instructor: Gene Cote, Ernie MacDonald, Steve Joslyn	Weather Forecasting and How it is used to Predict Gas Instructor: Richard Wilson	Isolation Fittings Instructor: Mike Pieciuk
12:00 -1:15	**LUNCH**						
1:15 – 2:15	Underground Assets – Sustainable Energy Programs Instructor: Chris Cavanaugh	Project Management Instructor: Jonathan Falls and Sankalp Geetam	Instructor Hands-on Leak Investigation Instructor: Brad Thomas	Overview of Gas Incident Investigation Instructor: Walter Munro	Plastic Pipe Joining (Part 2) Instructor: Gene Cote, Ernie MacDonald, Steve Joslyn	LNG/CNG Supply - Overview, System Considerations and Planning Instructor: Tom Kennedy	Distribution & Transmission Valves and Valve O&M Instructor: Bob Powell and Ryan Popp
2:30 – 3:45	Applied Process Safety Instructor: Enita Okodiko	Emergency Planning & Mutual Aid Instructor: Glenn Meyers	Instructor Hands-on Leak Investigation Instructor: Brad Thomas	Lessons Learned from Gas Utility Incidents Instructor: Andrew Cardin and Joseph Cardin	Plastic Pipe Joining (part 3) Instructor: Gene Cote, Ernie MacDonald, Steve Joslyn	The Basics of Pickling a New Natural Gas Pipeline Instructor: Mike Mullett	Gate Station Design 1 Instructor: Pat Callahan
BREAK							
4:00 – 5:00	Methane Emissions Reductions with Gas Capture Technology Instructor: Eric Greenslate	Utility Budget Setting Instructor: Jenny Zhang	Instructor Hands-on Leak Investigation Instructor: Brad Thomas	Basics of Field Applied Coatings Instructor: Shane Quackenbush	Bagging and Stopping Instructor: Ernest MacDonald	Odorization of the Natural Gas System Instructor: Scott Laplante	Gate Station Design 2 Instructor: Pat Callahan

Friday, June 5th Sessions & Times

2026	Pipeline Safety, Innovation & Management	Utility Business Operations	Customer Service	Distribution	Construction	Gas Supply, Storage & Transmission	Measurement/Control/ System Design
8:00-9:00	NYSEARCH Project Update Instructor: Suzy Chaillou	Understanding Energy Policy Environment in the Northeast Instructor: Christian Rodrick	Incident Command Instructor: Chief Brian Nardelli	History of Welding Instructors: Andrew Cardin and Joseph Cardin	Hands On Construction Demos for First Timers Instructors: William Jerome, Ernie MacDonald and Gene Cote	LNG Peak Shaving Plants - Life Extensions Instructor: Anthony Sweeney	Fundamentals of Odor Level Testing Instructor: Greg Ebert
BREAK							
9:30 – 10:45	Pipeline Robotics Instructor: Mark Gunsalus, David Lessard, Nathan Wrighter	Natural Gas Pipeline Safety Public Awareness Instructor: Karen Sousa	Fire Investigation Instructor: Chief Brian Nardelli	Welding Fundamentals & Hands-On For 1st Timers Instructors: Andrew Cardin and Joseph Cardin	Hands On Construction Demos for First Timers Instructors: William Jerome, Ernie MacDonald and Gene Cote	Hydrogen Supply - Overview, System Consideration and Planning Instructor: Chris Cavanagh	Prevention and Mitigation of Gas System Over pressurization Instructor: Bob Naper and Chuck Cotting
11:00 – 12:00	RD&D Workshop – How to Get Your Innovation Ideas Acted Upon Instructor: Mark Gunsalus, David Lessard, Nathan Wrighter, Suzy Chaillou	Understanding the Utility Bill & Energy Affordability Instructor: William Hinkle	Terrorism Instructor: Chief Brian Nardelli	Welding Fundamentals & Hands-On For 1st Timers Instructors: Andrew Cardin and Joseph Cardin	Hands On Construction Demos for First Timers Instructors: William Jerome, Ernie MacDonald and Gene Cote	Transmission Wellhead to City Gate Instructor: Christopher Stutz and Mohamed Eldesouky	Prevention and Mitigation of Gas System Over pressurization Part 2 Instructor: Bob Naper and Chuck Cotting

Hands-On Session

Construction/Corrosion Demo

Where: MAC
When: Friday from 8am - 12pm
Who: Anyone
How: Go to the different stations and collect stickers for up to 3 scans total, which apply towards the course completion certificate!

- Plastic Pipe Fusions
- Footage Squeeze Offs
- Mechanical Fittings
- Mueller Equipment Tapping

Every two stations = 1 scan

Hands-On Session

Welding Demo

Where: Classroom and Parking Lot C
When: Friday from 8am - 12pm
Who: Anyone
How: Go to the different stations and collect stickers for up to 3 scans total, which apply towards the course completion certificate!

- Learn about the history of welding
- Take part in a field applied coatings station

Every two stations = 1 scan

TRACK: PIPELINE SAFETY, INNOVATION & MANAGEMENT

A Fresh Perspective of Pre-Job Briefs; Through the Looking Glass of Intent Based Leadership

Instructor: Peter Russian
Level: Introductory

Pre-job briefs are probably one of the most important safety assurance "tools" we have in our day-to-day PSMS tactical toolbox. Come explore how to make pre-job briefs even more effective—it's not the message necessarily, it's how we deliver it that makes all the difference.

Re-visiting Management of Change; Exploring Practical Aspects of How, Where & When MOC is Applied

Instructor: Kathleen Muroski
Level: Intermediate

Management of Change (MOC) is often viewed as a complex hurdle in day-to-day operations and as a result, the risk mitigation benefits are not fully understood nor achieved. This session will review the intent of MOC, review approaches to MOC commensurate with the complexity of the change/operation and offer some practical ways to embed MOC into your operations.

PSMS Scalability – A Refresher on How to Apply the Tools of PSMS Across a Variety of Organizations & Operations

Instructor: Mark Hereth
Level: Intermediate

Have you heard the following comments in discussions around PSMS: "We can't do that, we are too small", "That's Intended for Large Operators", "Contractors Need Not Apply

These Principles, That's for The Operators". Applicability & Scalability of PSMS elements and how core principles of a safety management system apply to ANY size operation and shared with the Contractors that are a natural extension of our workforce is one of the most misunderstood aspects of PSMS, even by Regulators. This thought-provoking session helps "debunk" some of the misperceptions of applying core principles of PSMS across any size operation and with pipeline contractors.

Information Sharing & Lessons Learned – Transforming the Way We Learn from One Another

Instructor: Nathan Schafer and Mubasher Ahmed
Level: Introductory

This session will focus on "true learning" from industry events and experiences of the past decade. We will review industry incidents and operational near misses that have helped re-define our industry, and how we can use these life experiences to transform our approach to true learning and avoiding similar risks. We will also review on-going programs and tools you have access to as NGA Members to encourage voluntary information sharing of near-misses / good-catches to avoid risk and future repeat incidents.

Leak Detection Technology and Advancements

Instructor: Brad Thomas
Level: Intermediate

This class will present a review of historical leak detection methods, leak detection technology that is currently available and insight into products that are currently being researched and developed. Review of how these various technologies can be selected for specific field applications will be included.

Measuring Methane Emissions Across a Gas Distribution Utility's Network with Geospatial Analytics

Instructor: Sean Donegan
Level: Introductory

This session will focus on educating attendees on the capabilities of geospatial analytics applied to measuring methane emissions across wide geographic areas, such as the entirety of a gas distribution utility's service territory. The session will educate on how geospatial analytics works to analyze spectral signatures of gas emissions, yielding actionable alerts to the end user. The session is lively and interactive, using real customer data and live software to convey key concepts.

Network Geothermal Systems

Instructor: Eric Bosworth
Level: Introductory

This course provides insight into the design and construction of networked geothermal systems. Specifically, the upfront planning of networks, construction process, utilizing the existing skills of gas workforce, and the benefits they can provide in reaching carbon reduction goals. Lessons learned from ongoing pilots will also be shared for discussion.

Underground Assets - Sustainable Energy Programs

Instructor: Pradheep Kileti
Level: Introductory

Pipelines have played a pivotal role to deliver energy to customers safely, reliably, and affordably for decades. This class will provide an overview of the role of innovation and technology in decarbonizing the fuel and provide a sustainable option for our customers and communities.

Applied Process Safety

Instructor: Enita Okodiko
Level: Introductory

This session introduces the basics of process safety in a practical and easy-to-understand way. We'll start by explaining what process safety is, why it exists, and how it helps

organizations prevent serious incidents—not just injuries, but events that can impact people, assets, and communities.

Methane Emissions Reductions with Gas Capture Technology

Instructor: Eric Greenslate
Level: Intermediate

This class will present a review of the technology of capturing natural gas discharged from the decommissioning of pipelines by moving the gas into an adjacent pipeline, significantly reducing methane emissions. An explanation as to how ZEVAC technology can perform ventless purging will also be discussed.

NYSEARCH Project Update

Instructor: Suzy Chaillou
Level: Introductory

This course will highlight the latest research projects that NYSEARCH and its utility members are currently working on. During the session important projects from the portfolio will be discussed and how the projects and technologies will impact the industry and its employees.

Pipeline Robotics

Instructor: Mark Gunsalus, David Lessard, Nathan Wright
Level: Introductory

This session will highlight existing pipeline robotics technologies and those under development for both metallic and non-metallic pipe. We will discuss the technology with respect to features, sensors, data collection and corrective action. In addition, distribution company operators will show how they utilize the technology today and how they intend to implement new technologies in the future.

RD&D Workshop - How to Get Your Innovation Ideas Acted Upon

Instructor: Mark Gunsalus, David Lessard, Nathan Wright and Suzy Chaillou
Level: Introductory

During this session the RD&D process will be described and why it is so important to our industry. The speakers will also lead students through a brainstorming session that will identify operational problems and then create potential solutions. The intent is to provide operators insight to the process so they can bring this knowledge back into their operation as they are an integral part of the process from ideation to deployment.

TRACK: UTILITY BUSINESS OPERATIONS

Understanding the Utility Business Model

Instructor: Dan Cote
Level: Introductory

What Operations leaders should know about rate setting and rate cases. This session provides an overview of the utility business model, with a focus on how utilities fund safe, reliable service. Participants will gain an understanding of the fundamentals of the regulatory compact, including cost recovery, rate design, and the shared obligations between utilities and regulators, and what these principles mean for the industry today.

Contract Management

Instructor: Gregory Shea
Level: Introductory

The Anatomy of a Contract is designed to provide contract professionals with a clear, practical understanding of how complex construction contracts are structured, interpreted, and administered within a regulated public utility environment. The course demystifies contractual language enabling the contract professional to confidently oversee gas construction agreements while managing risk, compliance, cost, and performance.

AGA: Fueling Our Workforce Part I

Instructor: Kara Riba and Sue Forrester
Level: Introductory

Part I: The Industry and Your Impact. This session provides a foundational understanding of the natural gas industry, including how the system works, key facts, and the critical role employees play in delivering safe, reliable, and affordable energy. It builds awareness and pride in the essential work employees do every day.

AGA: Fueling Our Workforce Part II

Instructor: Kara Riba and Sue Forrester
Level: Introductory

Part II: How to Own Your Expertise. This session focuses on practical communication skills, helping participants confidently respond to common customer questions and navigate real-world conversations. Through interactive activities, employees learn techniques such as simplifying complex topics, bridging, and reframing.

Northeast Supply Constraint Challenges

Instructor: Jim Stephen
Level: Introductory

The session will provide an overview to Rhode Island Energy's process of natural gas supply planning, trading, and scheduling. These activities occur upstream of the distribution system and are critical in providing safe, reliable gas service to Rhode Island Energy customers.

Understanding the Rate Case Process

Instructor: Jodi Harris
Level: Introductory

This introductory course provides a high-level overview of the utility rate case process and why it matters to our industry. Ideal for employees who are new to the topic or looking to build foundational knowledge, the session explains how utilities set rates, recover costs, and work with regulators. Participants will be introduced to basic concepts such as revenue requirements, cost of service, and rate design—without requiring a finance or regulatory background. The course will also outline the typical steps in a rate case, from preparation and filing to review and approval.

Utility-Contractor Relations

Instructor: Mike Smith
Level: Introductory

This section outlines the essential relationship between contractors and LDCs necessary to provide the level of service required to achieve the goals established by the LDCs. It also reviews the effects of an evolving regulatory and political environment on contractors.

Project Management: From Concept to Completion

Instructor: Jonathan Falls
Level: Introductory

Delivering gas infrastructure projects requires effective coordination across engineering, procurement, and construction, while balancing scope, schedule, and cost. This session provides a practical overview of the end-to-end project management process within a utility environment. Participants will gain insight into design and engineering coordination, bid and procurement activities, and best practices for scheduling and budget management.

Emergency Planning & Mutual Aid

Instructor: Glenn Meyers
Level: Introductory

This session provides a concise overview of why preparedness is essential, often using real-world examples to show how emergencies impact communities and organizations. The session introduces key concepts such as identifying risks, assessing vulnerabilities, and understanding common hazards. Participants learn the basic elements of an emergency plan, including communication methods, defined roles and responsibilities, and resource coordination. The concept of mutual aid is also explained, highlighting how individuals, groups, and neighboring organizations collaborate and share resources during emergencies.

Utility Budget Setting

Instructor: Jenny Zhang
Level: Introductory

This session provides a comprehensive, practical introduction to long-term planning and capital budgeting within the natural gas utility sector. Participants will explore the full lifecycle of gas system investment planning—from system needs/customer demand forecast and regulatory context to project prioritization, portfolio optimization, and multi-year budget development.

Understanding Energy Policy Environment in the Northeast

Instructor: Christian Rodrick
Level: Introductory

This session provides a high-level overview of the policies and regulations shaping the energy landscape in the Northeast. Participants will learn how state and federal decisions influence natural gas operations, infrastructure planning, etc. The course also introduces key trends such as decarbonization and electrification. Designed for those new to energy policy, it translates complex concepts into practical insights.

RP1162 - Pipeline Public Awareness

Instructor: Karen Sousa
Level: Introductory

Overview of what the RP is, who it affects, why do we have it, and how it affects our business. The development, implementation, evaluation and documentation required for pipeline safety. The guidelines for operators of transmission, distribution and gather pipelines to enhance public awareness regarding pipeline safety and emergency preparedness.

Understanding the Utility Bill and Energy Affordability

Instructor: William Hinkle
Level: Introductory

As energy industry professionals it is essential that we all understand the components of the utility bill. This class will provide a clear explanation of typical residential and commercial utility bills in the Northeast US, where rates are among the nation's highest. Participants will learn about the key bill components including supply charges, delivery fees, taxes, and public policy costs.

TRACK: CUSTOMER SERVICE

Residential Regulators

Instructor: Tim Lonergan
Level: Introductory

This introductory course is geared towards entry level meter service mechanics or any gas personnel who are looking to gain a better understanding of gas regulator fundamentals, elements, operations, overpressure protection and troubleshooting procedures. Emphasis will be on a typical residential service regulator. Each attendee will have a regulator in hand throughout the instruction for a better understanding of the course objectives. Class size may be limited due to the hands-on nature.

Atmospheric Corrosion Inspection and Classification

Instructor: Mike Harmon
Level: Introductory

This introductory course is geared towards entry level meter service mechanics or any gas personnel who are looking to gain a better understanding of the cause and classification of atmospheric corrosion. This class will discuss causes of corrosion, hazards associated with it, and types of remediation.

Meter Installation

Instructor: Scott Crocker
Level: Introductory

This class will review the Federal, State and utility requirements for meter and regulator installations. The class will include proper locations, pressure considerations, regulator locations and venting, and abnormal operating conditions. Discussion will include residential, commercial and industrial installations. Is there a difference between existing installations and new installations?

Incident Investigation for First Responders

Instructor: Brad Thomas
Level: Introductory

This class is intended for any person that may be directly involved in a primary response effort where an incident has already taken place. Course material will begin with a review of selected incidents as documented by NTSB and other state agencies. There will be a discussion on appropriate response activities relative to each incident.

Dealing with Code Violations

Instructor: David Brogan
Level: Introductory

Persons installing, inspecting, or servicing gas equipment and appliances must ensure that these items are installed according to code and that they are operating safely. But how

should you respond if a code violation has existed for 20 years and it's 10 degrees outside? This course will discuss the problems of complying with multiple regulations such as the National Fuel Gas Code, state and local codes, manufacturer's instructions, and serving gas supplier regulations. Bring your own stories to class!

Gas Pipe Sizing

Instructor: Dan Lyne
Level: Introductory

In this training session we will discuss how to determine the total load of a customer and determine the correct pipe size required for safe delivery of natural gas to our customer. We will have a hands-on exercise for the student who will learn how to calculate pipe sizing with either Branch or Longest length methods.

Carbon Monoxide Hazards and Responses

Instructor: Scott Crocker
Level: Introductory

Everyone knows carbon monoxide is poisonous, but incidents are still occurring. This course will cover combustion theory in detail, including Orsat charts and excess air, in order to understand how carbon monoxide can be produced. It will also review how to perform combustion analyses, how to investigate carbon monoxide calls, and how to correct burner and appliance installation problems. Case studies will be shared as well.

Instructor Hands-On Leak Investigation

Instructor: Brad Thomas
Level: Introductory

This will be a hands-on demonstration conducted at the Eversource simulated leak field located in Shrewsbury, MA. The training will consist of simulating first responder scenarios on the live gas leak field for both above and below ground indications. Equipment used for detection will include combustible gas indicators as well as laser and infrared based

technologies. Equipment will be provided, but attendees are welcome to bring their own as well.

Incident Command

Instructor: Chief Brian Nardelli
Level: Introductory

Gas utilities find themselves more involved with the fire departments and understanding incident command and its structure is crucial to every incident. The intention of this course is for all of us to know "The who" is in charge based on the incident. When is it ok for the utility to get involved in the incident? This course explains the Fire Department's Incident Command Procedures and the interaction with the gas utility.

Fire Investigation

Instructor: Chief Brian Nardelli
Level: Introductory

What is Fire investigation and how do we best work together. How is it best to secure the scene and what role the utility plays in the fire investigation. This class will touch on the importance of the investigation and the importance of listening and watching what is happening on scene. The instructor will explain the burning characteristics of various materials to assist you in your determination.

Terrorism

Instructor: Chief Brian Nardelli
Level: Introductory

As a utility we are very focused on terrorism. Since the 9/11 incident every utility has had to ramp up the issue of security. The focus on terrorism and how we all interact—Fire Department, Utility, Homeland Security, Fire Marshall, and the FBI. Topics discussed include Boston Marathon, 9/11 attacks, etc.

TRACK: DISTRIBUTION

Gas Operations System: Operating Procedures

Instructor: Jenny Angelari
Level: Introductory

Gas Operations "System Operating Procedures" class will review the path of a professionally written "SOP" along with its oversight and safe execution of the process.

Kleiss Flow Stopping Including GoVAC Cross Compression

Instructor: John Zuccaro
Level: Intermediate

This session will include a Power Point presentation on the Kleiss Flow Stopping Systems as well as the use of Kleiss in conjunction with the GoVAC Cross-Compression Equipment. A Case Study will be presented from a 16" job using both systems. The Kleiss 3"-8" System will be present for hands-on learning. Any level gas employee can participate, however those working in distribution, tapping, stopping, and OQ would best be suited for this class.

Prevention & Mitigation of Gas System Over-Pressurization

Instructor: Mark Dupuis
Level: Intermediate

The session will discuss the important role that Gas Control plays as the "first line of defense" in over-pressurization prevention, the advantages that can be achieved in OPP redundancy by incorporating new technology into regulator station design and how to leverage the data derived from regulator station risk assessments and PSMS team discussions so that it can be used to identify, quantify, and mitigate potential contributors to over-pressurizations before they happen.

Job Site Safety - Excavation & Trenching

Instructor: Matt Damato
Level: Introductory

This session will provide an overall understanding of trenching and excavation in the gas utility industry and identify the hazards associated with one of the most hazardous construction activities detailing the general and specific requirements when excavating and trenching in accordance with construction regulations.

Damage Prevention

Instructor: Chris Clark
Level: Introductory

This session will promote education and awareness and foster a partnership with all stakeholders to help protect infrastructure, your employees, and communities. Excavator training and community outreach will also be discussed.

Trenchless Technology I

Instructor: George Ragula
Level: Intermediate

The course is based on several North American Society for Trenchless Technology (NASTT) Good Practices Guideline Manuals—a series of industry-developed documents that provide contractors, engineers and owners with a set of guidelines to assist in successful trenchless installations and operations. Who Should Attend? The target audience includes utility engineers, utility operations personnel, designers, managers and individuals involved with the construction, rehabilitation and management of underground utilities.

Trenchless Technology II

Instructor: George Ragula
Level: Intermediate

The course is based on several North American Society for Trenchless Technology (NASTT) Good Practices Guideline Manuals—a series of industry-developed documents that

provide contractors, engineers and owners with a set of guidelines to assist in successful trenchless installations and operations.

Overview of Gas Incident Investigation

Instructor: Walter Munro
Level: Introductory

A high-level overview of what a Natural Gas Incident Investigation Program should contain. Target Audience: Distribution, Construction, Operations, and Customer Service. Benefits: Students will review actual incidents and learn from best practices that were identified through the review.

Lessons Learned from Gas Utility Incidents

Instructor: Andrew Cardin and Joseph Cardin
Level: Introductory

A review of natural gas utility incidents and their causes from a lesson learned point of view.

Basics of Field Applied Coatings

Instructor: Shane Quackenbush
Level: Introductory

This class will be an introduction to various Field Applied Coatings used in the natural gas industry, including wax tapes, cold applied tapes and heat shrink sleeves. The instructor will also provide an overview of the proper criteria for: Selection of Materials, Manufacturers Application Procedures, Inspection & Backfill, and Documentation & Record Keeping.

History of Welding

Instructor: Andrew Cardin and Joseph Cardin
Level: Introductory

The objective of this class is to present an in-depth perspective of how welding plays a specific role within the natural gas distribution and transmission repair & modification. Topics include: The history of welding in gas transmission/distribution, welding's role in today's industry, the procedures and policies welders follow, and the oversight and inspection before, during and after welding takes place.

Welding Fundamentals & Hands-On for 1st Timers

Instructor: Andrew Cardin and Joseph Cardin
Level: Introductory

Students will have an opportunity to witness welding operation and test their own welding skills. These sessions will require minimum PPE—steel toe safety shoes and safety glasses.

TRACK: CONSTRUCTION

Pressure Testing

Instructor: Aaron Audette
Level: Introductory

This class will introduce students to the basic principle, processes, equipment and safety considerations when pressure testing gas and services.

Facility Locating/Class

Instructor: Eric Denslow and Mike Wright
Level: Introductory

The class will cover the basic theory of pipe locating for gas utilities including ground penetrating radar.

Facility Locating/Class (Hands-On)

Instructor: Eric Denslow and Mike Wright
Level: Introductory

The class will cover the basic theory of pipe locating for gas utilities including ground penetrating radar.

Pigging Distribution Piping

Instructor: Steve Dombrowski and Jenny Angelari
Level: Introductory

Pigging distribution piping introduces individuals to proper and safe pipeline pigging. Focused on pigging new plastic piping and proper job set up. Class will review what can go wrong, dos, don'ts, reviewing some O&M literature from various LDC's.

Understanding Static Electricity in Natural Gas Piping Systems

Instructor: Dirk Smith
Level: Intermediate

This class will explain the cause of static electricity in natural gas piping systems. It will identify the O&M operations which pose the most dangerous static ignition risks and how operators can mitigate those risks to prevent ignitions and shocks to workers.

Pipe Squeezing and Flow Control

Instructor: James Taylor
Level: Intermediate

In this session, we will review ASTM standards, PE pipe variables, job site safety, static electricity precautions, squeeze rates and precautions, release rates and basic tool maintenance.

Plastic Pipe Joining I, II, III

Instructor: Gene Cote, Ernie MacDonald and Steve Joslyn
Level: Intermediate

This class covers the methods of plastic pipe joining for new construction and the repair of existing plastic pipe. Specific topics and demonstrations will include: properties of plastic pipe, fitting preparation, mechanical joining methods and heat fusion joining.

Bagging and Stopping

Instructor: Ernie MacDonald
Level: Introductory

This course will review the equipment and processes for bagging and stopping off low pressure distribution system mains. Students will get a general understanding of using bagging systems to stop-off low pressure distribution system mains.

Hands-On Construction Demos for 1st Timers

Instructor: William Jerome, Ernie MacDonald and Gene Cote
Level: Introductory

This workstation will focus on the proper application of Cold Applied Tapes, Wax Tapes and Heat Shrink Sleeves commonly used in the natural gas industry. Proper surface preparation, application techniques and holiday detection and inspection will be included in the demos.

TRACK: GAS SUPPLY, STORAGE & TRANSMISSION

Introduction to Gas Supply & Control

Instructor: John Salemi and Kelly Barahona
Level: Introductory

This session will provide an overview of how natural gas enters the Local Distribution Company's (LDC) distribution system and is redirected by the Gas Control department within the distribution system to end-users. You will also learn the basics of how the typical LDC Gas Supply department assembles a balanced supply portfolio through firm and interruptible contracts, and how the influx of new supply options from Shale gas to LNG may impact supply management in the coming years.

New Technology at the City Gate

Instructor: Steve Root
Level: Introductory

This class will cover new technologies deployed or in the process of being deployed at the city gate. The class will cover city gate technologies for both local distribution companies (LDC's) and transmission operations. The topics will include metering, gas heating, pressure and flow control and other innovative equipment used in today's best practice operations.

Introduction to Natural Gas Markets, Prices and Happenings

Instructor: Chris Mullen
Level: Introductory

This course will update us on the ever-developing state of affairs of gas supply in the United States, and the northeast in particular. The course explores the different components of pricing, including the traditional supply resources (i.e. domestically produced and imported LNG) and new alternative gas developments (i.e. Renewable Natural Gas and Hydrogen).

RNG as a Supply Source, the Why and How

Instructor: Ryan Hess
Level: Introductory

This class will discuss the sources of RNG, how RNG is processed, methods of RNG delivery, and market drivers that make RNG viable.

Basics of Field Monitoring and Controlling of Pressure Flow I & II

Instructor: Scott Laplante
Level: Introductory

Students will learn the basics of how pressure and flow control of the gas system is maintained. Introduction to valves, regulators, flow controllers and heating systems and the part each plays in the natural gas system. Overview of Gas Control (SCADA) operations. Students will have the ability to experience adjusting pressure on a hands-on demonstration set up.

Weather Forecasting and How it is Used to Predict Gas

Instructor: Richard Wilson
Level: Introductory

This course will discuss some of the technology used in weather forecasting, as well as providing an open forum discussion that will include advances in weather forecasting techniques and what is now offered in the industry. Weather patterns that could affect natural gas transmission and distribution systems will be reviewed.

LNG/CNG Supply - Overview, System Considerations and Planning

Instructor: Tom Kennedy
Level: TBD

In this course we will be covering the natural gas flow from wellhead to burner tip. We will be showing the New England Transmission System and Peakshaving Plants. In addition, the course will touch on Gas Supply and Planning considerations. The course will finish with

details on Liquefied Natural Gas (LNG), Compressed Natural Gas (CNG), how they are stored and plant design considerations.

The Basics of Pickling a New Natural Gas Pipeline

Instructor: Mike Mullett
Level: Intermediate

Pickling of new steel pipelines is a transitory event of relatively short duration (days to a few months) that carries high risk due to the fact that this task falls outside the normal operating conditions of distribution or transmission of natural gas. Techniques exist to predict volume of odorant that needs to be added to pipeline to complete the pickling process. This is done in order to reduce risk, manpower, time and costs for pipeline startups.

Transmission Wellhead to City Gate

Instructor: Christopher Stutz and Mohamed Eldesouky
Level: Introductory

This course will focus on how the gas commodity travels from production to New England City gate. Discussion will include how production fields function and how the supply gets to the pipelines. Students will learn the functions of compressor stations, effects of storage injections and withdrawals, and how transmission companies use line pack.

LNG Peak Shaving Plants - Life Extensions

Instructor: Anthony Sweeney
Level: Introductory

There are over 40 LNG plants in the northeast US that are approaching 50 years old. This presentation describes the types of facilities involved, various project configurations used to execute life extension work, permitting, design, and construction topics that are specific to LNG life extension work.

Hydrogen Supply - Overview, System Consideration and Planning

Instructor: Chris Cavanagh
Level: Intermediate

Gas distribution utilities around the world have begun to evaluate and demonstrate the blending of hydrogen with natural gas to meet the growing need for partial or complete decarbonization of gas service. This session explains the goals of hydrogen blending as well as types of hydrogen and the means of hydrogen production, especially from renewable sources.

Odorization of the Natural Gas System

Instructor: Scott Laplante
Level: Introductory

Students will be introduced to the origins and reasons for natural gas odorization. Odorant injection methods and system sampling will be discussed. Students will have the opportunity to test their olfactory sensitivity utilizing sampling equipment.

TRACK: MEASUREMENT, CONTROL & SYSTEM DESIGN

Bridge and Rail Crossing Design and Construction

Instructor: Derek Smith
Level: Intermediate

This session provides insight into construction and maintenance concerns with bridge and rail crossings and sound design practices to address them.

AC Mitigation

Instructor: Gary Barton
Level: Introductory

This session will review the causes of AC interference on natural gas pipelines, as well as monitoring and remediation methods to mitigate its effects.

Portable LNG as a Supply Source

Instructor: Carl Hogue
Level: Intermediate

During this class, participants will be exposed to different scenarios when portable gas supply is required and learn the advantages of using vaporized LNG as a gas supply. The planning process of a portable LNG operation will be reviewed, including selection of vaporizer type, LNG supply, site preparation, and equipment mobilization. Applicable codes and safety concerns will also be presented.

Residential and Commercial Regulators: Sizing and Selection

Instructor: Jason Rosen
Level: Introductory

Learn the characteristics of various meter and regulator types commonly used in the natural gas industry. Session participants will review multiple station designs and criteria used to build meter and regulator installations. The knowledge gained will assist in a learning exercise to design a meter and regulator set.

Distribution System Modeling

Instructor: Kasey Elkin
Level: Advanced

This session introduces Synergi Gas, a hydraulic simulation software that performs steady-state analysis of natural gas distribution systems. The first section includes a review of the software and model development. The second section examines the use of these models in feasibility studies, system troubleshooting, and other concepts from an LDC perspective.

Fundamentals of District Regulator Station Design

Instructor: Mark Lamping
Level: Introductory

This class will cover the important criteria necessary when designing new and replacement district regulator facilities. It will also highlight the importance of field and engineering personnel working together to produce a safe and reliable finished product. Target Audience: Engineering, Gas System Planning, I&R, and Operations employees.

Specifications for CP Isolation Fittings

Instructor: Michael Pieciuk
Level: Intermediate

This session will include a review of Electrical Isolation Fittings commonly used in the design of a cathodic protection system including the isolation of CP systems as they relate to bridge crossings, pipeline casings and above grade facility piping. The instructor will also include a review of best practices for installing and replacing isolation fittings as required by OQ Task #15.

Distribution and Transmission Valves and Valve O&M

Instructor: Bob Powell and Ryan Popp
Level: Introductory

Students will review valve characteristics for both Distribution and Transmission systems along with valve cleaners, lubricants, sealants and proper use of injection guns.

Gate Station Design I & II

Instructor: Pat Callahan
Level: Intermediate

This class explores gate station designs focused on mechanically and ergonomically efficient configurations for new and existing installations. This session is intended for engineers and operating personnel tasked with designing and maintaining gate stations.

Fundamentals of Odor Level Testing

Instructor: Greg Ebert
Level: Introductory

Introductory session covering current mandates and methods relating to natural gas odor level testing. This session will highlight the importance of a robust, well documented and maintained testing program to ensure public safety and compliance.

Prevention and Mitigation of Gas System Over Pressurization I & II

Instructor: Bob Naper and Chuck Cotting
Level: Introductory

A review of case studies of past over-pressurization caused by human actions or inactions. This distinguishes it from the mechanical prevention discussion. Lastly it discusses how to prepare to respond to the next over-pressurization more quickly.