

2018 Class Schedule and Student Information

Celebrating 62 Years!

2018 NGA Gas Operation School and Exhibit

Exhibit Dates: June 5-6th
Student Classes: June 6-8th

Important Things to Know About the Gas Operations School

- General Information About The School
- Activities
- How To Read The Grid
- How To Register
- Overnight On Campus Housing
- Day Students
- Tours



The natural gas industry is in a constant state of change. We experience daily the changes necessitated by regulatory amendments, advancements in technology, and adjustments to corporate growth and replacement strategies. Through it all our goal remains the same: the safe, reliable delivery of energy to millions of customers in the northeast. This can only be accomplished with a dedicated, well-trained workforce.

The 2018 Gas Operations School presents opportunities for students to learn in a classroom setting as well as through demonstrations and hands-on programs. This year's school also offers several day trips to local facilities for on-site training experiences. Students can elect to stay within a single training track, or move freely from one track to another during the program. This allows each student to focus their experience with in a single area of concentration, or broaden their overall knowledge of the gas industry. The school also offers a Natural Gas Distribution Certificate Program that provides an overview of the industry from the "wellhead to the burner tip," as well as an opportunity to pass a written test for a Program Certificate.

I encourage you to take advantage of the many opportunities to interact with vendors, instructors and fellow students during your time at the School. Be sure to spend some time in the Exhibit Hall interacting with the vendors. Ask questions about their products and learn what's new with natural gas technology. Build professional relationships and expand future networks. Enjoy the very popular Tuesday night Clam Bake and Volleyball games, and consider watching or participating in the Wednesday night Sponsors Event, and the Thursday night Softball Game.

The NGA Gas Operations School Committee members have assembled a comprehensive curriculum for the School, recognizing advancements in technology and changes in the highly regulated environment in which we all work. Their hard work in identifying the class needs and obtaining industry experts and professionals to present these classes is appreciated, and a testament to their individual desire to provide the training necessary to advance our industry.

Please enjoy the 2018 NGA Gas Operations School and take advantage of all it has to offer.

Respectfully,



Rick Dion
Connecticut Natural Gas



About NGA

The Northeast Gas Association (NGA) is a regional trade association that focuses on education and training, technology research and development, operations, planning, and increasing public awareness of natural gas in the Northeast U.S.

NGA's Mission Statement is: *The Northeast Gas Association's mission is to promote and enhance the safe, reliable, efficient, and environmentally responsible delivery of natural gas to customers in the region, and to advocate for the industry from production to delivery.*

NGA represents natural gas distribution companies, transmission companies, liquefied natural gas importers, and associate member companies. These companies provide natural gas to over 13 million customers in nine states (Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island and Vermont). NGA was established on January 1, 2003. Its predecessor organizations were The New England Gas Association (founded in 1926) and the New York Gas Group (founded in 1973).

Purpose

To provide students technical knowledge from both a theoretical and practical viewpoint of various operational functions in the natural gas industry.

The Program

An academic environment, a highly qualified faculty and a comprehensive curriculum combine to provide an outstanding educational experience.

The School is annually evaluated to ensure that the courses, content and instructors are in-line with the current and future needs of the gas industry.

The 2018 School program features courses in the areas of safety, customer service, distribution, OQ, gas supply, storage, transmission, corrosion control, system design and LNG. A balanced mix of classroom lecture, instructor demonstration and student hands-on activities is provided in each discipline.

No Smoking Policy

Smoking is prohibited in all university buildings, including residence hall rooms and townhouses.

Cell Phones

While in the classroom, please put your mobile phones on vibrate or turn them off.

Name Badges/Bar Code

Your name badge holds the key to your attendance! The name badge has your individual bar code number on it. After each session you attend, the class monitor will scan your badge to record your attendance. Don't lose your Badge!

Pre-Registration

Remember to sign up early for the following sessions if you are interested - space is limited:

Natural Gas Distribution Certificate Program, MFA/LNG Tour, Gas Leak Investigation Tour, First Responder Simulation Tour, Compressor Station Tour.

Also, if you plan to participate in the evening activities be sure to sign up during Registration!

The NGA on-campus office will be located in the MRC Room 3.

NGA OFFICE HOURS AT BRYANT MRC 3

Wednesday, June 6	7:00 AM - 5:15 PM
Thursday, June 7	7:00 AM - 5:00 PM
Friday, June 8	7:00 AM - 12:00 PM

Tuesday, June 5 @ 6:15PM

New England Clambake

The traditional kick-off to NGA's Annual Gas Operations School continues

After the Clambake, Volleyball Anyone?

Lots of Fun...Laughs....Beverages

Wednesday, June 6 @ 6-8 PM Gas Rodeo

Join your colleagues for food, fun, competition & prizes! Mulcare Pipeline Solutions & LLFA Tape sponsored event!



- BBQ dinner, 5-6 PM
- Gas Rodeo Hands-on Event 6-7pm
- Award Ceremony w/Snacks & Beverages 7-8pm

Thursday, June 7 @ 6 PM Softball Game

Back by popular demand! Join your colleagues at the softball diamond and play in a social softball game.

Have some snacks and drinks while playing or cheering on your companies' teams.

Sponsored by NEUCO and Powell Controls



The Curriculum Grid:

The curriculum grid is made up of 7 different tracks: Introduction to Natural Gas Distribution Program, Safety, Customer Service, Distribution Operations, Operations OQ, Gas Supply, Storage & Transmission and System Design.

Pre-Registration is necessary for the Natural Gas Distribution Certificate Program and All Tours. You do not need to pre-register for any other courses.

Natural Gas Distribution Certificate Program

If you are registering for the Natural Gas Distribution Certificate Program, you must attend all sessions in that track and pass an exam at the end of Thursdays classes. Passing grade is 80% or higher. Please know that only students registered for the Natural Gas Distribution Certificate Program are allowed to attend those sessions.

If you attended all sessions and passed the exam, you will receive a Certificate from NGA stating you passed the Natural Gas Distribution Certificate Program at the 2018 Gas Operations School. This certificate is sent via email in July.

The Other Tracks:**Safety, Customer Service, Distribution Operations, Operations OQ, Gas Supply, Storage & Transmission and System Design**

A student can attend any session in any track except the Natural Gas Distribution Certificate Program. You do NOT need to stay to one track and you do NOT need to pre-register for any sessions held in a classroom. Students who attend 13 or more sessions during the 3 day program will receive a certificate for attending 13 sessions or more. This certificate is sent via email in July.

Sessions are color coded by building and classroom (e.g., all sessions that are in the Fisher Student Center (FSC) Papitto classroom will be blue, etc.). Please see the color legend on the top of each day's curriculum grid.

Please Note that Friday's Distribution Session, "Hands-On" for First Timers is an exception. This is a Natural Gas Distribution Certificate Program session. The first session 8:00 AM—9:15 AM, is for students in the Natural Gas Distribution Certificate Program. The next session from 9:30 AM—10:45, is for other students. Likewise, the last class from 11:00 AM—12:00 PM, is for all students.

To Participate in the Welding Hands-On Session Friday at 11:00 AM, you MUST attend the Welding Fundamentals classroom session at 8:00 AM—10:45 AM on Friday. You will not be allowed to weld if you did not attend the classroom session.

Tours

The 2018 School program features courses in the areas of safety, customer service, distribution, OQ, gas supply, storage, transmission, corrosion control, system design and LNG. A balanced mix of classroom lecture, instructor demonstration and student hands-on activities is provided in each discipline. To enhance your learning experience, NGA has arranged for a tour/hands-on session for each track. If you would like to participate in a tour, you MUST pre-register. This is handled during the registration process.

If you are registering online, you will see the tours that are still open. If a tour you are interested in is not available, there will be a wait list. The wait list will be created during registration at the school. The registration desk personnel will have a sign up sheet for your name and cell phone number. NGA will text you if you the day before the tour to confirm whether there is space.

If you are registering for a tour using the paper registration, NGA will email the person who submitted the paper work, informing them if the individual can participate on the tour, or whether the person needs to be placed on a wait list during registration.

If you register for a tour, you are expected to attend; if your plans change, please cancel the day before. This will allow NGA to communicate with a student on the wait list.

Name Badges/Bar Code

Your name badge holds the key to your attendance! The name badge has your individual bar code number on it. After each session you attend, the class monitor will scan your badge to record your attendance. Don't lose your Badge!

Registration

You can register used the paper registration form on NGA's website or register Online at NGA's GOS page. (click on Student box, then online Registration)

(http://www.northeastgas.org/gasops_student_reg.php)

Day or Overnight Student:

NGA offers both a rate for day students who commute to the school or stay at a nearby hotel, and an overnight student rate for students who stay on campus in dorm rooms. There are limited dorm rooms, and once sold out, they are sold out. Both day students and overnight students receive clambake tickets.

Thursday June 7th - Bus Tours

Distribution Track

Gas Leak Investigation—Pinpointing 2 sessions at Millbury, MA

Bus Departs Bryant (at circle adjacent to Bello Hall) at 9:15 AM and returns to Bryant after both sessions, arrives at Bryant around 12:30 PM.

Attendees will need to bring the proper PPE (safety glasses, hard hats, boots)...any other necessary PPE will be provided on site.

For more details, please see the Distribution Track - Gas Leak Investigation.

MUST PROVIDE YOUR OWN PPE TO ATTEND THIS CLASS *2 Sessions*

Customer Service Track

First Responder Simulation—3 sessions at Millbury, MA

Bus Departs Bryant (at circle adjacent to Bello Hall) at 1:15 PM and returns to Bryant after three sessions, arrives at Bryant around 5:00 PM.

Attendees will need to bring the proper PPE (safety glasses, hard hats, boots)...any other necessary PPE will be provided on site.

For more details, please see the Customer Service Track - First Responder Simulation.

Gas Supply, Storage, Transmission Track

Mass Fire Academy—LNG Program and LNG Plant Tour

Bus Departs Bryant (at circle adjacent to Bello Hall) at 7:45 AM and returns to Bryant after all day sessions, arrives at Bryant around 5:00 PM.

Attendees will need to bring the proper PPE (long pants, sturdy work shoes and photo ID)...any other necessary PPE will be provided on site.

For more details, please see the Gas Supply, Storage, Transmission Track - Firefighting Demonstrations at MFA and LNG Plant Tour. "6 Sessions".

Friday June 8th Bus Tour

System Design Track

Compressor Station Visit

Bus Departs Bryant (at circle adjacent to Bello Hall) at 7:30 AM and returns to Bryant after visit to Enbridge's Compressor Station, Burrillville, RI; arrives back at Bryant around 12:00 Noon.

Attendees will need to bring the proper PPE (safety glasses, hard hats, boots)...any other necessary PPE will be provided on site.

For more details, please see the System Design - Compressor Station Visit.

MUST PROVIDE YOUR OWN PPE TO ATTEND THIS CLASS *3 Sessions*

Wednesday, June 6 Sessions (13 Sessions From All 3 Days for GOS Course Completion Certificate)

2018	Introduction to Natural Gas Distribution Program	Safety	Customer Service	Distribution Operations	Operations OQ	Gas Supply, Storage & Transmission	System Design
8:00 - 9:15	NATURAL GAS FLOW Ins: John Rafferty	NGIS: A Postmortem Product Failure Assessment Ins: Bill Craley	Residential Regulators – Basic Operation Hands-On Ins: William Craley Introductory	Utilizing Live Gas Main Inspection to Resolve Operational Challenges Ins: Steve McKeefrey	Distribution OQ for Corrosion Control Part I Ins: Don Doubleday	Introduction to Gas Supply & Control Ins: Dan Pliche	Meter Sizing & Selection Ins: Bob Bennett Introductory
BREAK 9:30 - 10:45		Understanding the Effect of Pressure and Temperature on Measurement Ins: Bob Bennett Introductory	Dealing with Code Violations Ins: James Mullooney	Gas Pipeline Safety Regulations	Distribution OQ for Corrosion Control Part II Ins: Don Doubleday	Gas Transmission – Wellhead to City Gate Ins: Bob Bockook	Residential & Commercial Regulators Ins: Jason Rosen Introductory
11:00 – 12:30 LUNCH WITH THE EXHIBITORS: This Counts As A Session							
12:45 - 1:45	INSTALLATION OF A DISTRIBUTION SYSTEM Ins: Bob Willson	Properties of a Successful Job Brief Ins: Bill Craley	Odor Investigation for First Responders Ins: Brian Hunt and Bob Lundergan Introductory	Practical Field Application of Pipeline Regulations Ins: Phil Sher Introductory	Line Locating and Markout Ins: Michael Berthoud	Basics of Field Monitoring & Controlling of Pressure & Flow Ins: Scott Leplante	Distribution System Modelling Ins: Julie Porcaro and Alberto Ramirez Introductory
2:00 - 3:15		The Basics of picking a New Natural Gas Pipeline	Odor Investigation for First Responders Ins: Brian Hunt and Bob Lundergan Introductory	Overview of Gas Incident Investigation Ins: Anthony Tetto Introductory	Line Locating and Markout Ins: Michael Berthoud	SCADA Communications from Field to Screen Ins: Bill Kilroy and Steve Healey	Portable LNG Vaporization Ins: Carl Hoge Introductory
BREAK 3:30 - 4:30	Roundtable 7 Testing	Maintaining Critical Valves Ins: Robert Powell	Incident Investigation for First Responders Ins: George Lomax Introductory	Lessons Learned from Gas Utility Incidents. Ins: Anthony Tetto Introductory	Line Locating and Markout Ins: Michael Berthoud	Gas Control Training – Developing Yourself, Your Team and the Program	Bridge and Rail Crossings Ins: John Tirrell

Thursday, June 7 Bus Tours and Times (13 Sessions From All 3 Days for GOS Course Completion Certificate)

Bus Tours:

Departs at 9:15 AM to 12:00 PM (returns around 12:30): Gas Leak Investigation (Pinpointing): Committee Res: Paul D (counts as 2 sessions, Millbury) : **PPE: Steel Toe Boots, you will not be allowed without them (Introductory – yes confirmed)**
 Departs at 1:15 PM to 5:00 PM (returns around 5:30): First Responder Simulation: Committee Res: Milan Toombs: Ins: Eric Six (counts as 3 sessions, Millbury) **PPE: Steel Toe Boots, you will not be allowed without them (yes confirmed)**
 Departs at 7:45 AM to 5:00 PM (returns around 5:30): MFA and LNG Tour: Committee Res: Dan S, (counts as 6 sessions) **PPE: Long pants, sturdy shoes and photo ID required**

Thursday, June 7 Sessions

2018	Natural Gas Distribution Certificate Program	Safety	Customer Service	Distribution Operations	Operations OQ	Gas Supply, Storage & Transmission	System Design
8:00 – 9:00 - General Assembly - Counts as 1 Session							
9:15 – 10:30	MAINTENANCE OF A DISTRIBUTION SYSTEM Ins: Tom Chizmeki	Excess Flow Valve Overview Ins: Mike Zampogna	Meter Installation Compliance Ins: Milan Toombs	Class Open: Tour Damage Prevention, A. Shared Responsibility Ins: Maria Diaz	Plastic Pipe Joining Ins: Ray Bollesonault Steve Joslyn	Trenchless Technology Ins: George Ragula	Fundamentals of District Regulator Design Ins: Scott Lapointe and Mark Lamping
BREAK							
10:45-12:00		Safe Driving Techniques Ins: Mark Gunasalus Introductory	Recognition and Assessment of Atmospheric Corrosion Ins: Mike Harmon	Class Open: Tour Damage Prevention, A. Shared Responsibility Ins: Maria Diaz	Plastic Pipe Joining Ins: Ray Bollesonault Steve Joslyn	Trenchless Technology Ins: George Ragula	Gate Station Design I Ins: Patrick Callahan
12-1:15	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
1:15 – 2:15	PROTECTION OF A DISTRIBUTION SYSTEM Ins: Don Doubleday, John Flume, Lee Westerlind	Fundamentals of Odorization and Odor Level Testing Ins: John Rafferty Introductory	Odor Investigation for First Responders Ins: Brian Hunt and Bob Lundergan Introductory	Work Site Safety Ins: Jay Wykes and Rick Denham Introductory	Static Electricity on PE Pipe Ins: Dirk Smith Introductory	Class Open: Tour	Gate Station Design II Ins: Patrick Callahan
2:30 – 3:45		Fundamentals of Odorization and Odor Level Testing Ins: John Rafferty Introductory	Odor Investigation for First Responders Part 2 Ins: Brian Hunt and Bob Lundergan Introductory	Application of Field Applied Coatings I Ins: Shane Guackebush	Stopping Gas Flow: Squeeze-off's Ins: Ray Bollesonault Steve Joslyn	Class Open: Tour	Cathodic Protection System Design I
BREAK		Properties of Gas & AOCs Ins: Mike Francis	Incident Investigation for First Responders Ins: George Lomax Introductory	Application of Field Applied Coatings II Ins: Shane Guackebush	Stopping Gas Flow: Bag-off's Ins: Paul Baker and Steve Kochila Introductory	Class Open: Tour	Specifications for Isolating Materials for CP System Design Ins: Mike Pleciuk
4:00 – 5:00	Roundtable / Testing						

Friday, June 8 Bus Tours and Times (13 Sessions From All 3 Days for GOS Course Completion Certificate)

Bus Tours (limited to 25 students):

Departs at 7:30 AM to 12:00 PM (returns around 12:00 PM): Tour Compressor Stations: Committee Res: Bob Powell (counts as 3 sessions, Burrillville, RI):

PPE: Steel Toe Boots, you will not be allowed on the tour without them.

Friday, June 8 Sessions

2018	Natural Gas Distribution Certificate Program	Safety	Customer Service	Distribution Operations	Operations OQ	Gas Supply, Storage & Transmission	System Design
8:00-9:00	Distribution – “Hands-on” for Firat Timers: “Doors closed, until next session Ins: Ray Bolisognault Introductory	Class Open: Shared session with C.S	Incident Command Ins: James Puleo and William Scoble Introductory	Welding Fundamentals Classroom Hands-on (*only if requirement met) Ins: Ed Easley Introductory	Hot Tapping, Stopping & Bypassing	Natural Gas Markets, Prices and Happenings Ins: Robert Hayee	Sizing & Selection of Gas Mains and Services Ins: Kevin McCarthy Introductory
BREAK							
9:30 – 10:45	Distribution – “Hands-on” for Firat Timers: “Doors closed, until next session Ins: Ray Bolisognault Introductory	Class Open: Shared session with C.S	Fire Investigation Ins: James Puleo and William Scoble Introductory	Welding Fundamentals Classroom Hands-on (*only if requirement met) Ins: Ed Easley Introductory	Hot Tapping, Stopping & Bypassing	Weather Forecasting & How it is Used to Predict Gas Load	Key Elements For A successful Accelerated Pipe replacement Program Ins: Keith Johnson and Chris Landis
11:00 – 12:00	Distribution – “Hands-on” for Firat Timers: “Doors closed, until next session Ins: Ray Bolisognault Introductory	Class Open: Shared session with C.S	Terrorism Ins: James Puleo and William Scoble Introductory	Welding Fundamentals Hands-on (*only if requirement met) Ins: Ed Easley Introductory	Hot Tapping, Stopping & Bypassing	Portable LNG and CNG as a Supply Source	