

SPRING GAS CONFERENCE & EXPO

A TECHNICAL & LEADERSHIP DEVELOPMENT CONFERENCE FOR NATURAL GAS PROFESSIONALS

Course Catalogue

SPRING GAS SESSIONS



March 14-16, 2022

Columbia Metropolitan Convention Center | Columbia, SC

Gas 101 (Hybrid Session)

Monday, March 14 | 9:00 a.m. – 4:00 p.m.

- **Description:** Participants will leave this class with a high-level overview and general understanding of a utility's natural gas distribution system. Initially conceptualized as an explanation of the system for LDC supply chain employees, the course has been expanded to meet the needs of anyone who would benefit from a basic understanding of how the system is constructed, maintained and operated.
- **Course content** will include an overview of the many physical components and work activities used in construction and operation of a local distribution system:
 - **Section I: How Does the Natural Gas Delivery System Work?**
 - A Brief History of Natural Gas
 - Gathering Systems
 - Transmission Systems
 - Compressor Stations
 - Line-pack
 - Gate Stations
 - The Distribution System
 - Moving Natural Gas into the Home
 - **Section II: The Components & Systems of a Natural Gas Transmission and Distribution**
 - Components & Systems Overview
 - Steel Pipe
 - Pipe Coating
 - Pipe SMYS and Hydrotesting
 - Polyethylene Pipe
 - Fittings (Steel & Polyethylene)
 - Valves
 - Meters
 - Regulators
 - Meter & Regulator Sets
 - Stations - M&R, Gate, Border
 - Odorizers - Gas Conditioning
 - Launcher/Receiver Facilities
 - Purging & Pigging
 - Horizontal Directional Drilling (HDD)
 - Tapping & Stopping
 - Cathodic Protection
 - AC Mitigation
 - Filters & Strainers
 - Gas Instruments
- **Learning Objective(s):** Understand foundational concepts related to the gas transmission/distribution network and the major components used throughout the industry
- **Target Audience(s):** All natural gas industry personnel and vendors/suppliers
- **Speaker/Instructor(s):** Hosted by Ed Young Sales Co. (EYSCO) & Magnolia River

Valve Maintenance

Monday, March 14 | 8:00 a.m. – 4:00 p.m.

- Description: How important are your valves in an emergency or a planned outage? There's nothing worse than having to explain why the pipeline can't get shut down because a valve won't function properly. The importance of valves to a pipeline or distribution system is often overlooked. The three major valve types in the industry will be reviewed in this course. (Plug, Ball & Gate)
- Course topics for this all-day session include:
 - Valve Identification & Selection
 - Installation Practices
 - Design & Operating Differences
 - Maintenance Requirements
 - Troubleshooting Techniques
- Learning Objective(s):
 - Review practical aspects of valves, installation, design, operation, maintenance and troubleshooting
 - Understand how valves are used and maintained
- Target Audience(s): Design Engineers, Field Operations Personnel
- Speaker/Instructor(s): Tommy Hughes, Sealweld

TDW Tapping & Stopping

Monday, March 14 | 8:00 a.m. – 4:00 p.m.

- Description: Hands on tapping and plugging overview workshop on the 4" Polystopp Plugging and Branching System for polyethylene gas pipe using TDW electrofusion branch saddles and Polystopp tapping and plugging machines.
 - Low pressure applications < 150 psi
 - Mid pressure applications < 500 psi
 - High pressure applications up to 1480 psi

Learning Objective(s): Understand drilling and stopping procedures

- Target Audience(s): Field operations personnel and supervisors
- Speaker/Instructor(s): Steve Patterson, SJ Patterson Co.
- This session will take place at the Dominion Field Training Site at 188 Old Wire Rd., West Columbia, SC 29172. Buses will be provided and will depart the convention center at 7:30 a.m.

Basic Locating

Monday, March 14 | 8:00 a.m. – 11:30 a.m.

- Description: The Basic Locating session will focus on the fundamentals of locating. We'll cover what locating is and why it's necessary, along with the theory of locating. There will be time set aside to explain the various methods that the industry uses to perform locating for individuals that may be completely new to the locating world. We'll cover 811 ticket review and routing, how to mark the scope of a ticket and what positive response is. There will also be a portion of the session dedicated to giving attendees an opportunity to physically use equipment and perform locates.
- Target Audience(s): Individuals entering the locating field with a desire to have a better understanding of the industry, that are involved in 811 ticket entry and response, or are involved in working around buried utilities.
- Speaker/Instructor(s): James McCarter, Southern Cross Inc.; Stephen Farrar, Dominion Energy NC
- This session will take place at the Dominion Field Training Site at 188 Old Wire Rd., West Columbia, SC 29172. Buses will be provided and will depart the convention center at 7:30 a.m.

Peer To Leader (Hybrid Session)

Monday, March 14 | 8:00 a.m. – 4:00 p.m.

- Description: Making the transition to people manager has its rewards and it requires special skills to ensure success in the role. Have you experienced conflict as a new leader or had to communicate major changes and wished you were better equipped to navigate these experiences? Are you prepared to build trust, build a high performing team and manage feedback on an employee's performance? If you are a new people manager or you are ready to up your game as a leader, this course is for you! This class will engage participants in exercises to practice skills in real time as we cover the course topics listed. Course topics include:
 - Emotional Intelligence
 - Communicating and Listening
 - Giving and Receiving Feedback
 - Motivating Employees
 - Managing Performance
 - Managing Conflict
 - Team Building
 - Facilitating Change
- Target Audience(s): First-line leaders and newly promoted managers
- Speaker/Instructor(s): Cindy Mitchell, Southern Gas Association

Right of Way 101: What Your Team Needs to Know to Keep Your Projects on Track

Monday, March 14 | 8:00 a.m. – 11:30 a.m.

- Description: This session will consist of three components, land, design, and maintenance
- Land:
 - When will we have the rights of way we need to go to construction? What can we do to make the acquisition process go faster? What do we need to do now that we have the necessary easements?
 - If you or your project teams have ever asked these questions, this session is for you! Join industry leading right of way experts as they demystify the land rights negotiation and acquisition process, provide insight on how to navigate right of way design challenges, and explain ways in which rights of way are maintained once installation is complete. This presentation will be followed by a Q&A session.
- Design:
 - This portion will cover a variety of design considerations for pipeline routing, permanent easement & temporary workspace needs, and facility site sizing & access. During this course we will also discuss the importance of cross-discipline coordination throughout the design phase to provide all stakeholders, from the Land Acquisition team to Environmental to Construction Operations, with the necessary insight into the Engineering team's approach for determining the land acquisition needs for a pipeline and/or station project. We will highlight the importance of integrating the land acquisition project stakeholders, while considering the challenges that each particular project poses, such as trenchless installation, stream / wetland crossings, foreign utility / pipeline encroachments, cathodic protection / AC mitigation systems, and site access.
- Maintenance:
 - What does maintenance consist of once the pipeline is completed? How is the right-of-way maintained (mowed or chemically treated)? What is the frequency of mowing and side trimming? What methods of leak survey are used? ... and more.
 - Course Topics:
 - Pipeline routing & facility site sizing
 - Trenchless installation & additional temporary workspace needs
 - Environmental concerns & permitting restrictions
 - Access considerations
 - Construction implications
 - Cross-discipline stakeholder input
- Learning Objective(s):

- Gain high-level understanding of how unique project challenges may impact right-of-way design
- Awareness of the importance of cross-discipline coordination and stakeholder buy-in on the right-of-way design for a project
- Target Audience(s): Project managers, land acquisition employees, engineering and design, field employees.
- Speaker/Instructor(s): Aimie Mims, HDR; Alex Ries, Burns & McDonnell; Aaron Walker, Duke Energy

Renewables (Hybrid Session)

Monday, March 14 | 8:00 a.m. – 11:30 a.m.

- Description: The world is shifting towards renewables, the energy industry is in the spotlight, and the natural gas community is setting goals for the future. With corporate policy and regulations shifting towards sustainable development, renewables such as RNG, Hydrogen, and innovative technologies are expanding across natural gas systems nationwide. In this seminar you will learn about what incentives and regulations are driving the industry, take a closer look at the production processes, and discover new technologies focused on reducing carbon footprints.
 - Topics:
 - Renewable Natural Gas (RNG) Basics
 - Methods for pipeline Injection
 - Innovative Renewable Gas Technologies
 - RNG and renewables policy
 - Introducing hydrogen into natural gas systems
- Learning Objective(s):
 - Understand drivers of RNG industry
 - Learn basic RNG production process
 - Understand best practices for pipeline injection
 - Learn about new innovative technologies
 - Market update of RNG and other renewables
- Target Audience(s): Engineers, Engineering Managers, Sustainability Managers, Renewables Managers, anyone interested in Natural Gas Renewables
- Speaker/Instructor(s): Mike Longo, Anax Power; Matt Lensink, CEM Engineering; Dan Dismukes, Honeywell; Sam Lehr, RNG Coalition

Inline Inspection

Monday, March 14 | 8:00 a.m. – 11:30 a.m.

- Description: This seminar for in-line inspection will discuss why we do in-line inspection. We'll cover what's considered threats to a pipeline, as well as the regulations that drive this type of inspection. We'll talk about the various mitigation options, to include industry best practices, the basics of the in-line inspection, and what an individual can assess from the field through the non-destructive evaluation.
- Topics:
 - What keeps us up at night - Pipeline Threats
 - Regulations
 - Basic to advanced
 - Pipeline specific
 - How we keep it in the pipe - Threat Mitigation Options
 - Industry recommended practice
 - Basics of in-line inspection
 - Field assessment via non-destructive evaluation
 - Insights from the inside - In-line Inspection Start to Finish
 - Logistics and operating considerations
 - Analyzing data
 - Verifying results

- Beyond the expected – Advanced Integrity Considerations
 - Pipeline threats outside the norm
 - Projecting future needs
 - Preparing for the future
- Learning Objective(s): Attendees will have the opportunity to learn about an in-line inspection from start to finish and then take another step deeper into the advanced considerations for those threats that are unique and unexpected.
- Target Audience(s): Individuals who would like a better understanding of what an in-line inspection is, what it accomplishes, and how the data collected is analyzed and applied to mitigate present and future pipeline threats.
- Speaker/Instructor(s): Dane Burden and Miguel Maldonado, T.D. Williamson

Tracking & Traceability Solutions to Improve Operations and Compliance

Monday, March 14 | 8:00 a.m. – 11:30 a.m.

- Description: This class will focus on specific GIS data management processes that utilize modern data capture technology to connect the dots. We will review techniques and approaches to train employees in the use of those collection methods (barcodes included), and articulate ways to use the collected information to connect multiple sources to tell the whole story of what goes in the ground. Topics covered include gathering information like Field Inspection, Survey, X-ray, OQ, Materials, Contractor and Engineering utilizing tools available today, along with field workflows and items that arise while trying to ensure data integrity.
- Learning Objectives:
 - Modern Data Management Strategies for Tracking & Traceability
 - Tracking and Traceability: Need To Know
 - Extensions of Tracking & Traceability and associated benefits
 - Connecting The Dots: Survey, Engineering, Procurement, GIS, Contractor
 - Data Modeling
 - Effective Data Capture Practices & Implementation
 - Field and Office Training Techniques and Approaches
 - Barcoding scenarios
 - Efficiencies with mapping
 - Management of Change and the checks and balances
 - Putting The Data To Use
 - Connecting The Dots (a deeper dive)
 - Maps
 - Dashboards
 - Analytics
- Target Audience:
 - Field Operations
 - Compliance
 - Engineers
 - GIS Personnel
- Speaker/Instructor(s): Hayden Strickland

Advanced Locating

Monday, March 14 | 12:30 p.m. – 4:00 p.m.

- Description: This seminar for advanced locating will cover a variety of topics. I want to explain signal distortion in electric magnetic field, what causes our signal to be distorted, and things we can do to make our signal better. Our class will consist of classroom, and field time.
- Topics:

- EM Locating Theory
- Technical Aspects
- What is a locating signal
- Bullet Point Troubleshooting
- Students will receive hands-on EM experience. Students are welcomed to bring their own EM locator.
- Learning Objectives: The focus will be to help locators become better locators. The entire class will also be an open based discussion for questions to be asked at any point. Attendees are welcome to bring their own equipment for advanced training.
- Target Audience(s): Anyone with a desire to learn advanced techniques in locating in both a classroom and field setting.
- Speaker/Instructor(s): Eric Prince, Tracer Electronics, LLC
- This session will take place at the Dominion Field Training Site at 188 Old Wire Rd., West Columbia, SC 29172. Buses will be provided and will depart the convention center at 12:00 p.m.

Cross Bore Remediation

Monday, March 14 | 12:30 p.m. – 4:00 p.m.

- Description:
 - Topics Include:
 - What is a cross bore?
 - Examples of damages resulting from Cross Bore with Sewer Facilities
 - Lessons learned from one Local Distribution Company's cross bore remediation program
 - Sewer Camera Equipment and the benefits of seeing what's in the ground
 - Live demonstration of a sewer camera truck operation with an opportunity to operate the camera.
- Target Audience(s): Cross bore program managers, field employees
- Speaker/Instructor(s): Steve Hall, SEC; Russ Ibold, and Cory Hunter, Duke Energy

Emergency Response & Incident Investigation (Hybrid Session)

Monday, March 14 | 12:30 p.m. – 4:30 p.m.

- Description: This session will cover key concepts related to effective response to pipeline emergencies. Topics will include an overview of the Incident Command System, effective scene size-up, and tactical decision making. The session will also include case studies of actual pipeline incidents as well as recommendations for coordination with public sector responders. Effective liaison with public sector responders is a key element of a sound pipeline public awareness program. This session will include recommendations for proactive programs to enhance coordination with those key individuals that will respond in the event of a pipeline emergency. Tips for effectively handling the media at the scene of a pipeline incident will be provided. Included in the program will be an overview of various state initiatives related to enhancing coordination with emergency responders.
- Learning Objective(s):
 - Understand the fundamentals of the Incident Command System
 - Understand how to effectively work with the Public Sector Emergency Responders
 - Tips for effectively handling initial interaction with news media
- Target Audience(s):
 - Operations Supervisors
 - Managers and Directors
 - Safety & Risk Management
 - Human Resources
 - Legal Professionals
 - Engineering Professionals
 - Communications Professionals

- Speaker/Instructor(s): Glen Boatwright, York County Natural Gas Authority; Mark Hereth, Blacksmith Group

Environmental Compliance

Monday, March 14 | 12:30 p.m. – 4:00 p.m.

- Description: The environmental compliance presentation will provide an overview of the environmental permitting and compliance process utilized by Dominion Energy for natural gas pipeline construction projects, conforming to a Compliance-Focused Environmental Management System. A question and answer session will follow at the conclusion of the presentation.
- Target Audience(s):
 - o Engineers responsible for pipeline design and/or construction management
 - o Managers responsible for pipeline permitting and construction management
 - o Support Staff responsible for permitting pipeline projects
 - o Support Staff assigned to the task of ensuring regulatory compliance during pipeline construction activities - specifically as it relates to environmental regulatory compliance
- Speaker/Instructor(s): Lee Newman, Dominion Energy; Glenn Johnson, Dominion Energy

Measurement & Meter Fundamentals

Monday, March 14 | 12:30 p.m. – 4:00 p.m.

- Description: Proper measurement is the “cash register” for all utilities. It’s where the money’s at. Covering everything from the foundation to the roof, this course will start out with the “Basic Gas Laws” and then proceed to the common methods of measurement used today – diaphragm meters, rotary meters, turbine meters, and ultrasonic meters. Not only theory, but hands-on activities will provide a thorough understanding of how each meter operates along with sizing and selection of the right meter for the application.
- Learning Objective(s):
 - o Understand the fundamentals of Ultrasonic Meter Measurement
 - o Review Ultrasonic Meter Designs
 - o Discuss factors that affect measurement/accuracy
 - Station Design Considerations
 - o Understand AGA 9 Standards
- Target Audience(s): New utility engineers, measurement techs, or anyone new to the gas industry that wants to understand the “tools of the trade” involved with gas measurement.
- Speaker/Instructor(s): Kasey Howe, Honeywell; Max Park, Xylem; Bob Bennett, Honeywell; Chad Millinor, Bartlett Controls

Tuesday, 15 March 2022

Gas 201: Distribution System Design for System Expansion and Reinforcement

Tuesday, March 15 | 8:00 a.m. - 4:00 p.m.

- Description: NOTE: For more inexperienced attendees, please consider taking Gas 101 as a prerequisite. This 1 day Gas 201 workshop takes the participant through the system design process and will provide opportunities for hands on application of the concepts being presented. An excellent starting point for the new engineering professional or a refresher for the more seasoned employee. Course content will

include the following:

- System Modeling + Planning
 - Load Requirements for Expansion & System Reinforcement
 - Line + equipment Sizing
 - Project determinations:
 - Facility:
 - Flow requirements
 - Pressure requirements
 - Control requirements
 - Pipeline:
 - Route Determination
 - Constructability review
 - Prelim cost estimate
- Project Design
 - Environmental Due Diligence
 - Permitting & Right-of-Way requirements
 - Survey/Data collection
 - Facilities Design (M&R Stations)
 - P&ID
 - Long Lead Materials Procurement
 - Civil/Site Design
 - Mechanical Design
 - SCADA/Electrical considerations
 - Pipeline Design
 - Construction method
 - Environmental Design
 - Geotechnical evaluations (as appropriate)
 - Prepare construction plans
 - Tie-in Design
 - Appurtenance design (block valves, isolation valves, etc)
 - CP/AC mitigation design
 - Easement, work space documentation, permit preparation
 - Bid documents prepared
- Project Execution
 - Material procurement
 - Permitting
 - Land acquisition
 - Construction/Inspection
 - As-builts
 - Project Close-Out
- Learning Objective(s):
 - Review the system design process
 - Practice concepts learned through hands on application
- Target Audience(s): New engineering professional and a refresher for the more seasoned employee.
- Speaker/Instructor(s): Magnolia River

Leak Investigation Seminar

Tuesday, March 15 | 8:00 a.m. – 4:00 p.m.

- Description: This seminar is all about leaks! Learn about leaks, leak detection equipment, and techniques, tips, and tricks for outdoor and indoor leak investigations. This class is providing training and education but does not constitute certification or qualification.

Topics:

- Natural Gas Safety
 - Properties of Natural Gas
 - Preventing Accidental Ignition
- All About Leaks
 - What is a leak?
 - Leak Grades
 - 192 Code
 - Investigation Steps
 - Leak Detection Equipment
- Outdoor Leak Investigation
 - Visual Signs
 - Bar Holing
 - Pinpointing
 - Documentation
- Indoor Leak Investigation
 - Safety Checks
 - Pinpointing
 - Reacting to Gas Indoors
 - Documentation
- Learning Objective(s):
 - Learn about natural gas leaks,
 - Learn how to grade leaks and steps to follow when performing a leak investigation,
 - Learn about leak detection equipment, and best practices for performing outdoor and indoor leak investigations.
- Target Audience(s): Entry to mid-level; anyone new to leak detection or wanting to brush up on their skills would enjoy this class.
- Speaker/Instructor(s): Rick Hale and Derrick Proctor, Dominion Energy- North Carolina
- This session will take place at the Dominion Field Training Site at 188 Old Wire Rd., West Columbia, SC 29172. Buses will be provided and will depart the convention center at 7:30 a.m.

Mueller Tapping & Stopping

Tuesday, March 15 | 8:00 a.m. – 4:00 p.m.

- Description: Hands on tapping and plugging overview workshop on the Mueller 1pc low pressure linestopper fitting as well as a 4" plastic Mueller Shur Stop linestopper fitting.
 - Low pressure applications < 150 psi
 - Mid pressure applications < 500 psi
 - High pressure applications up to 1480 psi

Learning Objective(s): Understand drilling and stopping procedures

- Target Audience(s): Field operations personnel and supervisors
- Speaker/Instructor(s): Blake Battleson, Mueller Co.
- This session will take place at the Dominion Field Training Site at 188 Old Wire Rd., West Columbia, SC 29172. Buses will be provided and will depart the convention center at 7:30 a.m.

Measurement/Regulator Station Design Best Practices (Hybrid Session)

Tuesday, March 15 | 8:00 a.m. – 11:30 a.m.

- Description: Distribution metering and regulating stations are typically unmanned sites that are critical to operations. Good station design can promote safe operations, save maintenance costs, improve reliability, and ensure accurate measurement and stable regulation. Station designs can vary significantly between different

operators and areas of the country; this course will discuss many design considerations and philosophies.

- Learning Objective(s): Understand design considerations and philosophies to best fit your situation and create solutions.
- Target Audience(s): Field Operations, Engineers
- Speaker/Instructor(s): Bob Bennett, Honeywell

Beginner CP/Corrosion

Tuesday, March 15 | 8:00 a.m. – 11:30 a.m.

- Description: This entry-level class explore a review of basic corrosion used in the industry and dive deeper into cathodic protection. Learn about corrosion basics, cathodic protection principles, and how to take accurate CP reads safely. Understand code requirements for CP systems and other general practices associated with taking CP reads. This class is providing training and education but does not constitute certification or qualification.

Topics:

- Basic Corrosion Industry Overview
 - Types of Corrosion: external, atmospheric, internal corrosion
- Corrosion Basics
 - Corrosion Cell
 - Galvanic Corrosion
 - Pitting
 - Coatings
- Cathodic Protection Education
 - How CP Works
 - Anodes & Rectifiers
 - Stray Current, AC, other interference sources
 - Bonds
 - Test Stations
- Taking CP Reads Education & Tutorial
 - Part 192 Requirements
 - Taking pipe to soil reads
 - Safety Considerations
 - AOCs
 - Meters & Other Tools of the Trade
 - Half Cells
 - Half Cell Maintenance & Calibration
 - Documentation
- Learning Objective(s): Learn what corrosion is, how it occurs, and impacts to the industry. Understand cathodic protection principles, when and how to take accurate CP reads safely, and understand when CP readings may be influenced.
- Target Audience(s): Entry-level; anyone who takes CP readings on pipelines or wants to learn about the process will benefit from this class.
- Speaker/Instructor(s): Tony Horton, Dominion Energy

Inspection of the Installation of Pipelines Overview (Hybrid Session)

Tuesday, March 15 | 8:00 a.m. – 11:30 a.m.

- Description: Proper pipeline inspection begins before the first piece of pipe is installed and isn't complete when the last meter is turned on. From building relationships to onsite inspection of pipeline installation, the tasks that are associated with being a Pipeline Inspector are vast and crucial. In this seminar you will learn best practices for distribution pipeline inspections. The presentation will be followed by a panel discussion with industry experts to give their perspectives on a range of distribution inspection topics. Topics include:

- Topics include:
 - Safety practices for Inspectors
 - Pre-Construction activities
 - Digital inspection records retention
 - Digital mapping and data collection
 - Best practices for communication and conflict resolution
 - Best practices for project reporting
- Learning Objective(s):
 - Understand proper inspection practices
 - Discuss best practices for safety, communication, collection, documentation, and reporting
 - Review PHMSA requirements
- Target Audience(s): Inspectors, Operations Supervisors and Managers, Superintendents, Engineers, Consultants
- Speaker/Instructor(s): Brad Dias and Brad Bullock, Magnolia River

Safety Panel Discussion (Hybrid Session)

Tuesday, March 15 | 8:00 a.m. – 11:30 a.m.

- Description: Natural Gas utilities must remain focused on the commitment to Health and Safety. By investing in the Health and Safety of our employees, our industry can continue to provide safe, reliable, and superior service to customers. This session is intended to generate dialogue surrounding current best practices and opportunities to expand and promote Health and Safety within the workplace.
- Learning Objective(s):
 - Best practices around incorporating ergonomics and soft tissue injury prevention into corporate safety culture
 - Management of Care (case management) for on-the-job injuries.
 - Field Observations- Using leading indicators for opportunities to improve safety culture (i.e. HP and system)
 - Critical Risk Management Teams
- Target Audience(s): All audiences
- Speaker/Instructor(s): Fred Heslip, Dominion Energy; Micah Sawyer, Southern Company Gas; Craig Foreman, Duke Energy

Distribution Integrity Management

Tuesday, March 15 | 8:00 a.m. – 11:30 a.m.

- Description: This workshop developed and facilitated by a committee of industry professionals will feature subject matter expert presentations, question and answer, and peer to peer roundtable discussion.
 - Agenda topics include:
 - What is DIMP?
 - Why do we have DIMP?
 - What are the components of DIMP?
 - What do companies have in place related to damage prevention/investigation?
 - How do companies perform risk modeling or ticket risk management?
 - We will close with a round table discussion about DIMP hot button topics with a Q&A format
- Target Audience(s): TBD
- Speaker/Instructor(s): Cory Hunter, Duke Energy; Marc Worth, Duke Energy; Keven Graham, Southern Gas Company

Operational Benefits of a Field Based, GIS-centric System Upgrade

Tuesday, March 15 | 8:00 a.m. – 11:30 a.m.

- Description: Come learn why Peoples Natural Gas has taken a proactive approach in updating their entire

distribution network's mapping system – approximately 675,000 sites and 5,400 miles of service lines! And how this massive data initiative has resulted in the ability to tackle all sorts of challenges, such as but not limited to: tracking damaged assets, developing a more precise maintenance strategy, outage management, service traces, and merging datasets from separate/acquired companies. This session will also explain how the combination of technology and boots-on-the-ground can be used to create intuitive operations dashboards, perform quality control, track metrics, and monitor progress. We will go in detail through the GIS process of configuring custom maps and other GIS tools used to manage the process, as well as, sharing general lessons learned on locating, equipment, personnel, and training. An audience-interactive discussion is encouraged – we want you to learn how this strategy can be applied to YOUR network!

- Target Audience(s): Entry to management; Engineers, Project Managers, GIS, Mapping, Operations; Anyone involved with distribution network optimization and looking for ways to improve existing system
- Speaker/Instructor(s): Scott Ewart, Peoples Natural Gas; Bob Wallace, Drew Powers, and Nick Lickteig, Atwell, LLC

Horizontal Directional Drilling (Hybrid Session)

Tuesday, March 15 | 12:30 p.m. – 4:00 p.m.

- Description: Mark Miller, PE, and Trevor Hoyles, PE, LEG, will provide a brief overview on the fundamentals of Horizontal Directional Drilling (HDD) methods, and then move on to discussing considerations for geotechnical data required for design, the design process, permitting considerations, hydraulic fracture analysis, and the importance of construction documentation.
- Learning Objective(s):
 - o How engineers can reduce construction risks on their HDD projects through thoughtful planning and preparation.
 - o Understanding the necessary elements of a geotechnical exploration and laboratory testing program sufficient to design an HDD.
 - o Understanding the difference between hydraulic fracture and inadvertent returns as well as the limitations of modeling/analysis.
 - o How regulatory compliance plays a huge role in helping keep a project on schedule.
 - o Target Audience(s): All Attendees
- Speaker/Instructor(s): Trevor Hoyles, and Mark Miller, GeoEngineers, Inc.

Advanced CP/Corrosion

Tuesday, March 15 | 12:30 p.m. – 4:00 p.m.

- Description: This session discusses the role of the CP technician in gathering and interpreting field data associated with corrosion and corrosion control using cathodic protection. The collection and use of field data is the initial step for any number of analytical tools associated with evaluating the effectiveness of the cathodic protection system. This session will comment on the critical nature of the professional corrosion technician in understanding the science of corrosion & corrosion control, best practices associated with performing field measurements, and interpreting the resultant data.
- Topics include:
 - Cathodic Protection Criteria and IR Drop
 - Coupon Test Stations
 - Interference
 - DC
 - AC
 - Cathodic Protection for Complex facilities
- Learning Objectives:
 - Understand challenges associated with field data collection and interpretation
 - Understand the role of coupon test stations
 - Gain high level understanding of dc and AC interference
 - Understand cathodic protection principles associated with application in complex facilities
- Target Audience(s):

- Operations Supervisors
- Engineering Professionals
- Advanced level cathodic protection technicians
- Speaker/Instructor(s): Clay Brelsford, Bass Engineering Company

Control Room Management (Hybrid Session)

Tuesday, March 15 | 12:30 p.m. – 4:00 p.m.

- Description: A comprehensive review of CRM guidelines as they apply to natural gas transmission and distribution operators. This session will review CRM guidelines for LDC operators and provide insight into current regulatory audit areas of focus. This session will also highlight best practices to ensure operators are getting the most of out their control room operations.
- Learning Objective(s):
 - Understand CRM regulations and how they apply to LDC's
 - Study examples of current CRM audit trends
 - Learn what to do and what not to do to be efficient and compliant in your control room
- Target Audience(s):
 - Gas control managers and operators
 - Regulatory compliance specialists
 - Employees of companies who provide technical services and products to the gas control industry
- Speaker/Instructor(s): Casey Gallio and Mike Bradley, EverLine

Cyber Security – Threats and Blind Spots (Hybrid Session)

Tuesday, March 15 | 12:30 p.m. – 4:00 p.m.

- Description: Alexander Urbelis will discuss specific attacks targeting the oil and gas sector and other components of critical infrastructure. This presentation will provide (i) a high-level overview of how threat actors manipulate the domain name system, (ii) an explanation as to why that manipulation can be a blind spot within organizations, and (iii) actionable threat intelligence and screenshots of several attacks targeting oil and gas companies to better enable front line employees to detect and defend against such attacks. Trent will discuss threat trends and approaches to securing the operational (OT) environment. This includes the ability to meet the changing security regulatory & compliance environment, address risks, and reduce vulnerabilities. In this session, we will discuss a holistic approach to identifying risks through combined security and integrity analysis. This view assists asset owners in making well-informed operational mitigations, as well as meet the goals of current federal guidelines and industry standards.
- Learning Objective(s): Gain an awareness of threats the industry, with specifics to the OT environment. Understand the evolving compliance environment, including an approach to address risk through a combined view of security and integrity
- Target Audience(s):
 - Executive Management / Decision Makers
 - IT / Security Personnel
 - Risk Team Members
 - Field Site Managers
 - Control and Operational Staff
 - Employees at any level who have an email address
- Speaker/Instructor(s): Trent Ackhurst, EverLine; Alex Urbelis, Crowell & Moring LLP

DIM Internal Roundtable

Tuesday, March 15 | 12:30 p.m. – 4:00 p.m.

- Description: Members of the DIM committee conduct an internal roundtable discussion on activity plans and additional conferences for 2022.
- Target Audience(s): Members of the SGA DIM committee, DIM professionals
- Speaker/Instructor(s): Justin Inman, Dominion Energy

Geohazard Risk Assessment

Tuesday, March 15 | 12:30 p.m. – 4:00 p.m.

- Description: Geohazard risk assessments allow operators to take proactive measures to prevent natural disasters and hazard events before they occur. The goals of a geohazard risk assessment are: (1) to pinpoint the geologic causative factors which lead to geohazard risk and (2) to prevent damage to communities and clients' assets. This course will educate participants on geohazards pursuant to integrity management requirements – and those which effect pipeline stability (e.g. landslides, flooding, seismic hazard, subsidence, washouts, etc.). We will review case studies and best practices related to site-specific monitoring, mitigation, and pipeline integrity management. This session will be led by a team of experienced instructors specializing in geohazard risk and regulatory compliance.
- Topics:
 - Intro to Geomorphology & Geohazards
 - Geohazard Risk Assessments – Overview & Case Studies
 - Best Practices: Hazard Mitigation & Integrity Management Plans
- Learning Objective(s):
- Determine the best practices for geohazard identification and management, as related to pipeline integrity and integrity management plans.
- Target Audience(s): Field Personnel and Inspectors, Pipeline and Facility Engineers, Management
- Speaker/Instructor(s): Kirstyn Cataldo, Brandi Wolfe, and Luis Sacramento, WSB Engineering

Wednesday, 16 March 2022

Natural Disasters: Are You Prepared? (Hybrid Session)

Wednesday, March 16 | 8:00 a.m. – 11:30 a.m.

- Description: Does your company have a contingency plan in place? If so, how prepared are you to initiate and follow the plan? In this session we will review multiple emergencies including a tornado response, flooding that required the relocation of a gas utility's operation, and a totally unexpected Christmas Day bombing in a major city. The presenters will talk about how their company plans for these events, the particulars of these specific events, how they utilized their emergency planning during and what changes they may have initiated afterwards.
- Learning Objective(s):
 - Determine best practices for natural disasters
- Target Audience(s):
 - Associates at all levels of the organization will benefit
- Speaker/Instructor(s): Benjamin Davis, Duke-Energy; Dillon Wade, Greenville Utilities Commission

Where's My Stuff (Hybrid Session)

Wednesday, March 16 | 8:00 a.m. – 11:30 a.m.

- Description: "I want my stuff next week –why isn't it available" In today's current demand/supply situation, both Utilities and Suppliers are often in situations where the product availability expected/required/ desired of the Utility (Customer) does not match the Supplier's (Product providers) capability/schedule/ readiness/ability. Why are there these supply issues and how can the supplier and the customer either/or independently or collectively

partner and develop solutions? A panel of suppliers and utility customers will discuss factors that affect the lead time required for major equipment purchases.

- Panelist would represent the below categories A,B,C,D (one, possibly two from each category)
 - Utility Operations or Purchasing/Strategic Sourcing
 - Suppliers to consist of Manufacturers as well as Reps/Distributors to provide a wide variety of input
 - Moderator will do introductions and present a list of questions that can be presented to panelists and offer support/guidance in moderating with panel. Those in attendance will be encouraged to interact with the Panel with questions or by providing input/perspective.
- Learning Objective(s):
 - Understand the demand of utilities and suppliers
 - Detail the Scope of the issue of supply and demand
 - Process and Improve Communication to resolve issues
- Target Audience(s):
 - Natural Gas Suppliers
 - Utility Executives, Managers, Directors
 - Utility Operations and Supply Chain Personnel
 - Utility Procurement Personnel
- Speaker/Instructor(s): Jeff Manzo, Dan Knight, Pattie Leatherman, Jeff Dyer, Nick Palmer, Mitch Lister, Renee Van Kersbergen, Leslie Emison, Jaret Ledermann

Peak Shaving Alternatives

Wednesday, March 16 | 8:00 a.m. – 11:30 a.m.

- Description: The workshop provides operations and maintenance engineers and technicians in pipeline companies with the knowledge of different peak shaving alternatives that contributes optimum value toward improved system reliability.
- Target Audience(s):
 - Engineers responsible for pipeline design and system planning
 - Managers responsible for pipeline design and system planning
 - Support staff who can benefit from the overall understanding of different peak shaving alternatives
- Speaker/Instructor(s): Jim Devine and Ben Peart, REV LNG LLC

Regulator & Relief Selection and Sizing (Hybrid Session)

Wednesday, March 16 | 8:00 a.m. – 11:30 a.m.

- Description: This course will focus on Regulator and Relief Selection and Sizing from an Industrial and Commercial perspective. The course will feature regulator and relief design best practices, investigate ways to best optimize regulators and reliefs at stations and meter sets, and provide insight toward the factors that influence regulator and relief selection and sizing. Course Topics Include:
- Regulator Fundamentals
- Regulator Types and Functions
- Performance Details such as Droop, Turndown, Lockup
- Station Design Considerations
 - Control Run Design and the effect on Regulator and Relief Selection
 - Effects of Pressure Drop
 - Gas Velocity
 - Noise
 - Maintenance
- Regulator Sizing Program Live
- Relief Valve Type and Function
 - Relief Valve Selection

- Sizing Considerations
- Relief Valve Sizing Program Live
- Testing
 - o 1st Bubble vs. Main Valve Lift
 - o Testing “Best Practices”
 - o Maintenance
- Q&A
- Learning Objective(s):
 - o Understand regulator and relief selection and sizing.
 - o Discuss various types of regulators and how they function, station design consideration and sizing, relief type and function, sizing, testing, maintenance, and design consideration
- Target Audience(s): Any industry personnel associated with the Regulator and Relief selection, sizing, station design, and maintenance. The Class material is designed to address knowledge levels from novice to higher levels of expertise.
- Speaker/Instructor(s): Mark Holland, Bartlett Controls

Damage Prevention Partnership

Wednesday, March 16 | 8:00 a.m. – 11:30 a.m.

- Description: This seminar is all about damage prevention success! We will discuss the overarching PNG damage prevention efforts. We will focus the discussion on a ticket risk assessment program that PNG has put in place and the Watch and Protect field services involved. We will highlight the successful relationship that PNG has formed with CW to reduce damages on gas facilities. CW has taken major steps to be successful in damage prevention.
- Topics:
 - Damage prevention
 - Ticket risk assessment and watch & protect services
 - Watch & protect field response
 - PNG and CW coordination
 - CW changes made
 - Great results from these changes, company coordination and communications
- Learning Objective(s): Learn how PNG is working to reduce dig-in damages in their service areas. This will include an overview of their ticket risk assessment/watch and protect programs.
- Target Audience(s): Entry to mid-level damage prevention discussion that will be of interest to LDCs, Municipalities, gas operators, and contractors.
- Speaker/Instructor(s): John Hannel, Surveying And Mapping, LLC

Four Proven Solutions to Drive Improved Inspector Performance

Wednesday, March 16 | 8:00 a.m. – 11:30 a.m.

- Description: How do you maximize the performance of your inspectors? This session will discuss four proven solutions to drive that performance based on three case studies, and the use of behavioral assessments to identify and develop talent. Topics include:
 - Challenges facing market leaders now and in the future
 - Practical solutions to improve inspector performance
 - Case studies discussing three performance approaches, and their results
 - Summary and next steps
- Learning Objective(s):
 - How to recruit, screen, hire and manage inspection workforce based on three case studies
 - Understand how behavioral assessments can be utilized to identify and develop talent.
 - Understand your own behavioral assessment, what are your strengths and blind spots.
- Audience(s): Mid-level managers up to VPs. The curriculum requires that attendees bring a laptop or mobile device to complete an assessment included in the class.
- Speaker/Instructor(s): Dan Lorenz, Joe Knows Energy