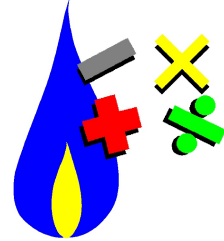


GASCalc™ & GASWorkS™ Training Class



Title: Introduction To GASCalc 4.0 & GASWorkS 9.0

Level: Basic/Beginner

Industry Sector: Any Gas Piping Systems

Duration: Approximately 2.5 days

This course is intended for the new or occasional User of the GASCalc or GASWorkS software. The course combines topics contained in the individual basic courses for each product including the calculations and routines found in the GASCalc software, and an introduction to network behavior, network modeling, and the use of the latest version of the GASWorkS software, with an emphasis on working with natural gas distribution style systems. A variety of system styles - distribution, transmission, gathering, and plant piping - will be used during the course.

The GASWorkS portion of the course consists of both classroom and extensive hands-on training, allowing the student to gain an understanding of both the concepts and functional operation of performing network analysis and using the GASWorkS software. Topics to be covered will include:

- A review of modeling basics, terminology, and methods.
- A review of the functionality and features found in the latest version of the software.
- Students will work through several examples including development of models of a variety of distribution, transmission, gathering, and plant piping systems.
- Model calibration and verification.
- Reporting, printing, and plotting.
- Use of background images.
- The use of the import and export routines.
- Working with the isolation valve and tracing features.
- Using the pipe sizing features.
- Student suggested topics and example models.

The GASCalc portion of the course consists of both classroom and extensive hands-on training, allowing the student to gain an understanding of both the concepts and functional operation of performing calculations using the GASCalc software. Topics to be covered will include:

- An introductory review of applicable functions and features found in the latest version of the software.
- Students will work through several calculation examples including:
 - Gas Properties
 - Atmospheric Pressure
 - Pressure Factors
 - Pipe Sizing
 - Steel & Plastic Pipe Design Formula
 - Hoop Stress
 - Blowdown Time
 - External Loading
 - Thermal Expansion
 - Regulator Station Overpressure Protection - Monitors & Relief Valves
 - Gas Loss From Damage
 - Unit/Energy Conversions
- Working with the various property tables.
- Student suggested topics and example models.

The class is intended for new to moderately experienced users. Attendees should have a good understanding of using Windows based software applications. Although general system design and operation topics will be discussed during the course, the course itself is not intended to provide detailed training in these topics. The attendee should have a basic understanding of the operation and design of natural gas piping systems.

Students are encouraged to bring example models/problems. A portion of the class time will be set aside for working with student examples and specific topics of interest.

Registration Form

To register, please complete the following form and return the completed form by email, mail, or fax.

Course Selection (Select One Only)...

- Basic GASWorkS For Distribution Systems - \$495
- Basic GASWorkS For Transmission & Gathering Systems - \$495
- Basic GASWorkS For Gas Piping Systems - \$495
- Basic GASCalc & GASWorkS For Gas Piping Systems - \$695
- Basic GASCalc For Distribution Systems - \$395
- Basic GASCalc For Transmission & Gathering Systems - \$395
- Basic StationManager - \$495
- Basic GASWorkS US Design Module - \$495
- Advanced GASWorkS - \$495

Course Date:

*** Registration is contingent upon available space - *do not* make travel arrangements until your registration has been confirmed.

Student Information

Name			
Preferred Name			
Company			
Street Address			
Street Address			
City		State	
Country		Postal Code	
Telephone Number		Fax Number	

Payment Option: Check Enclosed Credit Card

Payment By Credit/Debit Card...		Type	<input type="radio"/> Amex <input type="radio"/> MasterCard <input type="radio"/> Visa
Name On Card		Signature	
Account Number		Expiration Date	

Payment must be made at the time of registration unless other arrangements have been previously made with us. If you have questions about completing this form or the class, please feel free to contact us. Thank you for your registration...

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