# PIPE-FLO® Professional - FLO-MASTER Webinar Training

**WHAT IS FLO-MASTER?**
FLO-Master Training provides attendees with a detailed understanding of how piping systems operate. By simulating the interaction of pipelines, pumps, components, and controls throughout the system, participants will gain a greater knowledge of piping system devices and how they operate.

During the FLO-Master Training, instructors demonstrate a comprehensive step-by-step approach to using PIPE-FLO® which covers features, tips, and tools that are not available through the basic program tutorial.
After attending a FLO-Master Training, attendees will be able to build PIPE-FLO® system models faster, tackle the most complex fluid piping projects, and design a more efficient piping system.

**WHO SHOULD ATTEND?**
FLO-Master Trainings are ideal for those using the PIPE-FLO® Professional program to design, build, operate, and maintain fluid piping systems. Both new and experienced PIPE-FLO® Professional users will gain from this class because it covers everything from piping system operation to a comprehensive exploration of the PIPE-FLO® software.

**FLO-MASTER COURSE OBJECTIVES:**
Attendees will learn how to:

- Build a PIPE-FLO® Professional piping system model in less time
- Use fluid flow theory to gain an understanding of the total piping system
- Maximize the use of PIPE-FLO® Professional's program features and increase productivity while decreasing capital, maintenance, and operating costs

**COURSE TOPICS*:**

**DAY 1 (2hr):**

Section 1: The PIPE-FLO® User Interface

- Program Interface
- System Devices

Section 2: Building a Piping System Model

- Initiating a System
- Fluid Zones
- Pipe Specifications
- Draw the System
- Enter Design Data
- Improve Presentation Value

**DAY 2 (2hr)**

Section 3: Calculating

- Calculate the Model
- Evaluate Results
- Using Graphs
- Using Reports

Section 4: Model Validation

- Validate Model
- Creating / Copying Lineups
- Evaluate Minimum Flow Recirculation
- Orifice

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**DAY 3 (2hr)**

Section 5: Using Lineups to Model Different Operating Scenarios

- Evaluate Varying Operating & Equipment
- Conditions
- Failure Analysis
- Changing Fluid Properties

Section 6: Modeling Engineering Designs and System Modifications

- Duplex Strainer Tie-In
- Resize Pipes
- Resize Strainer
- Resize Pump
- Size Control Valve
- Dedicated Pump Option
- Pump Selection
- Size Control Valve

**DAY 4 (2hr)**

Section 7: Datalink

- Create ODBC Database
- Query Database from Excel
- Use Database to Calculate Pipe Weight
- Install Datalink DLQ Add-In

Section 8: Troubleshooting Piping Systems

- Modify System
- Evaluate Messages
- Install Control Valve at Tank
- Install BPV at Tank
- Install Balancing Orifice at Tank

Section 9: Modeling Gas Systems

- Limits of Darcy-Weisbach
- Review System & Lineups
- Evaluate Messages
- Compressibility Check Sheet
- Update Model, Pass Compressibility Check
- SCFM vs. ACFM
- Choked Flow in Control Valve

***Sections 1-6 are guaranteed. Sections 7-9 are covered based on the time allowed.***