Regulator Sizing and Selection Course Objectives

- Introduction What is a regulator and how does it work?
 - o What is Droop? Can we use it?
- Regulator types and functions
 - Spring Operated
 - Pilot Operated
 - Piston-Type
 - Mooney FlowMax
 - Fisher 1098
 - Pietro Fiorentini ReFlux819
 - Diaphragm Type
 - Mooney FlowGrid
 - Fisher EZR
 - Pietro Fiorentini AperFlux 101
 - o What is "Turn Down"
 - Restrictive Cages
 - Throttle Plates
- Station Design Considerations
 - o What does the Code say?
 - Single Reg/Relief
 - Worker/Monitor
 - Working Monitor
 - o Pressure Drop and Heat Loss (Joules Thompson)
 - Upstream Filtration and the effects of not having any
 - Noise and environmental considerations
 - o Gas velocity why is this important?
- By the Numbers... (the math part)
 - o Thank Goodness for Sizing Programs!
 - Working the program

- Regulator Considerations
 - o Selecting the right regulator for the application:
 - Diaphragm
 - Piston
 - Globe Valve
 - Ball Valve
 - o What about "turn down"?
 - o How severe is the service?
- Relief Selection
 - o Regulator as a Relief
 - Service Considerations
 - o Piston Type Relief
 - Modulating
 - Snap Acting
- Relief Sizing (Sizing Program)