



PenEdu Learning & Consulting, LLC

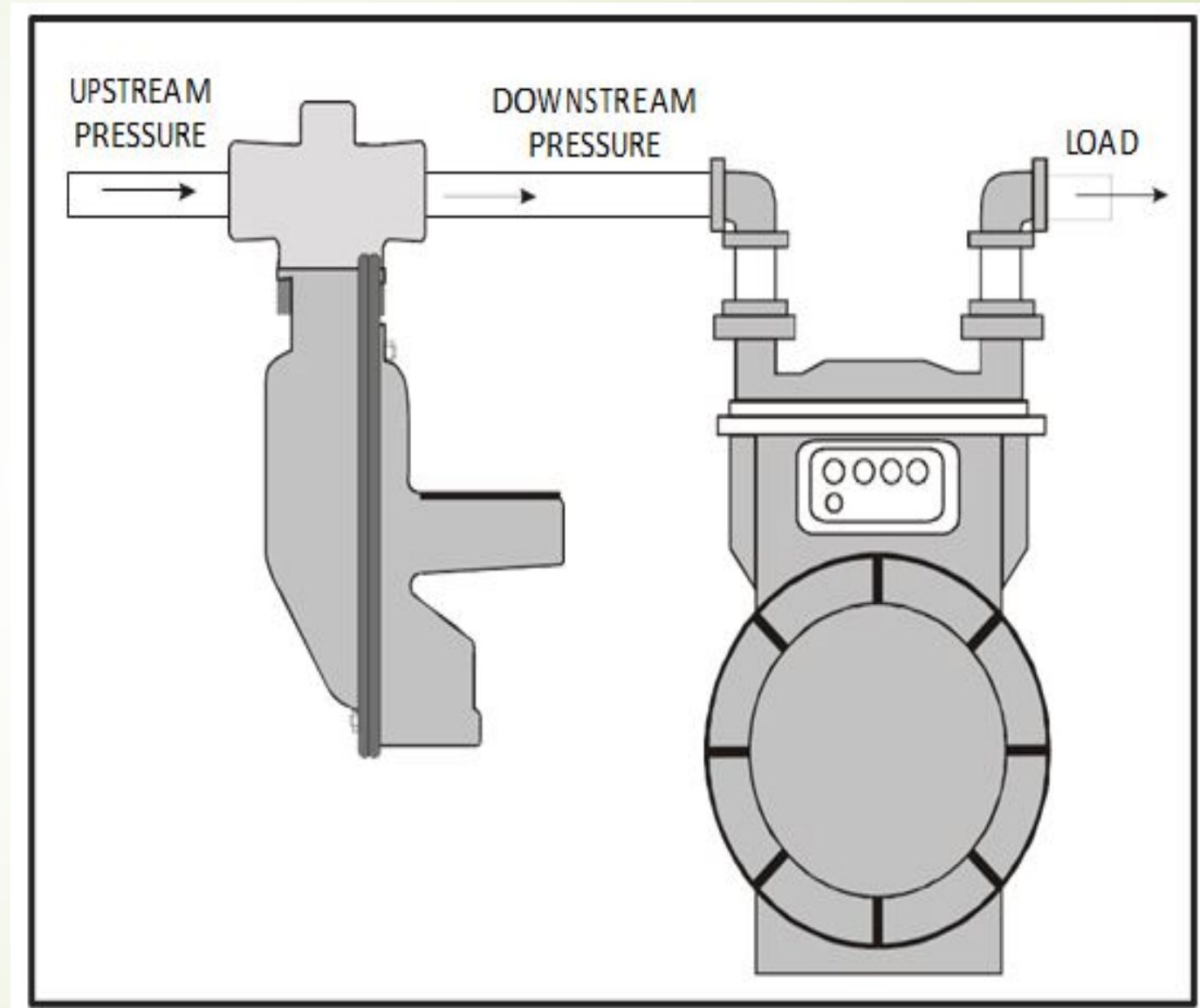
"Where questions become knowledge"

Member - *Energy Learning Network* a Consortium of Energy Industry Learning Professionals

Certificate in Gas Measurement

Gas Measurement has often been called the "Cash Register" of the natural gas industry. All natural gas is produced, bought, sold, transported, and delivered to the ultimate consumer is measured at various points along its ultimate delivery route. Highly skilled technicians are required to test, maintain, and repair gas measurement meters, pressure control, and related facilities. Our focus in this curriculum is on gas measurement operations, equipment testing, calibration, and Personnel Safety.

Course Curriculum



Certificate of Completion in Gas Measurement

Certificate of Energy Industry Technical Skills - eLearning

Introduction:

Participants who complete the curriculum outlined below will earn a **Certificate of Completion in Gas Measurement Technical Skills**.

Participants that complete one or more of the Certificate of Completion programs often focus their work careers in an Energy Industry organization, performing functions in departments such as:

- Human Resources
- Natural Gas Measurement
- Liquefied Natural Gas (LNG) Operations
- Pipeline Corrosion
- Pipeline Repair and Maintenance
- Instrumentation & Electronics (I&E)
- System (Gas) Control
- Compression & Pump Stations
- Above Ground Tank Storage of Hydrocarbons
- Underground Gas Storage
- Gas Plant Operations
- Safety & Environmental
- Marketing
- Accounting & Finance
- Projects Managers
- Engineering & Technical Staff
- Clerical support
- Operations

Gas Measurement eLearning		
Topic	PenEdu Course	Hours
Core Curriculum		
Natural Gas Fundamentals	ELN-9101 Introduction To Gas Measurement	20 minutes
Corrosion	ELN-9091 Atmospheric Corrosion	20 minutes
Fluid Mechanics	221 Fluid Mechanics: The Nature of Fluids	25 minutes
Fluid Mechanics	222 Fluid Mechanics: Units of Measurement	20 minutes
Fluid Mechanics	223 Fluid Mechanics: The Behavior of Gases	35 minutes
Fluid Mechanics	224 Fluid Mechanics: Fluid Statics	45 minutes
Fluid Mechanics	225 Fluid Mechanics: Motion of Fluids	40 minutes
Pressure Control	408 Maintaining and Repairing Pressure Limiting Devices	30 minutes
Valves & Equipment	400 Valves Actuators	45 minutes
Valves & Equipment	0361 Electric Actuators	40 minutes
Valves & Equipment	448 Controller Basics	35 minutes
Pressure Control	4020 Inspecting & Testing Pressure Limiting Devices	25 minutes

Gas Measurement eLearning		
Topic	PenEdu Course	Hours
Pressure Control	ELN-9111 Spring & Pilot Operated Relief Valves	30 minutes
Pressure Control	4021 Inspecting & Testing Regulators	30 minutes
Pressure Control	4022 Inspecting & Testing Control Valves	15 minutes
Instrumentation	905 Using the Heath Gas Surveyor 3-500	30 minutes
Meters	ELN-9141 Orifice Meter Measurement	20 minutes
	Total	8.1 hours