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"Where questions become knowledge"

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"Where Questions Become Knowledge"

Control Room Management (CRM)

Library

Course
Code

Course Name
***Spanish Version**

Description and Length (in minutes)
3-18-24

Control Room Management (CRM)

Pipeline Operator Qualification	800	Gas Control	<i>Gas Control</i> examines major gas control terminology, flow rate and pressure, SCADA systems, compressor operation basics, emergency response, and overpressure protection for pipelines carrying high-pressure gas. (60 min)
OQ DOT Compliance	850	Public Awareness	Public Awareness addresses public awareness program requirements for the natural gas and hazardous liquids pipeline industries, including types of stakeholder audiences, message content, message delivery frequency, and program evaluation. (35 min)
OQ DOT Compliance	851	DOT Drug Awareness	Contractor Safety examines basic safety principles for gas and hazardous liquids pipeline workers. Course topics include guidelines, emergency procedures, communication, recordkeeping, and equipment and operations. (20 min)
OQ DOT Compliance	852	DOT Alcohol Awareness	DOT Alcohol Awareness addresses workplace substance abuse, DOT-regulated alcohol abuse policies, job performance, crisis situations, alcohol testing requirements, and the roles and responsibilities of supervisors. (60 min)

OQ DOT Compliance	853	Contractor Safety	Contractor Safety examines basic safety principles for gas and hazardous liquids pipeline workers. Course topics include guidelines, emergency procedures, communication, recordkeeping, and equipment and operations. (20 min)
OQ DOT Compliance	854	Accident/Incident Investigation Overview	Accident/Incident Investigation Overview discusses the general steps necessary to investigate an accident or incident involving natural gas and hazardous liquids pipeline systems. (30 min)
Pipeline Operator Qualification - DOT	858	System Control: Fatigue Management for Supervisors	<i>System Control: Fatigue Management for Supervisors</i> examines how control room supervisors can recognize and manage fatigue in controllers who work with SCADA systems. The fatigue mitigation strategies are also useful for supervisors of shift workers at compressor and pump stations and those involved in around-the-clock operations. (30 min)
Pipeline Operator Qualification - DOT	859	System Control: Fatigue Management for Controllers	<i>System Control: Fatigue Management for Controllers</i> examines countermeasures natural gas hazardous liquids pipeline controllers and other shift workers can take to prevent fatigue. Strategies that these workers can take both at home and at work are discussed. (30 min)
Pipeline Operator Qualification - DOT	860	System Control: Control Room Management Regulations	<i>System Control: Control Room Management Regulations</i> is an overview of control room management. Major provisions include written CRM procedures, roles and responsibilities, adequate information, point-to-point verification, fatigue, alarm, change management, operator experience, training, and compliance validation and deviation. (30 min)
Pipeline Operator Qualification	901	* Basic Electronics: PLCs	<i>Basic Electronics: PLCs</i> address basic information and hardware components concerning PLCs; principles of operation; applications; installation, calibration and checkout, documentation, and troubleshooting; peripheral devices; waveform properties and phase relationships; and ladder logic and other skills associated with programming PLCs. (70 min)
Pipeline Operator Qualification	902	Basic Electronics: SCADA	<i>Basic Electronics: SCADA</i> addresses SCADA system history, office and field hardware components, communication protocols, installation, calibration, and troubleshooting. (105 min)

Pipeline Operator Qualification	1200	Underground Storage of Natural Gas and Liquids	<i>Underground Storage of Natural Gas and Liquids</i> addresses underground storage in the energy industry, similarities and differences of gas and liquids products, basic storage functions and terms, different types of underground storage, and the purpose and function of underground storage equipment. (95 min)
Pipeline Operator Qualification	LQ800	* LQ: Pipeline System Control	<i>LQ: Pipeline System Control</i> explores the basic definitions of a liquid pipeline system, duties and responsibilities of a pipeline controller, types of pipeline control and their regulations, calculations on safe and timely product delivery, SCADA and SCADA monitoring systems, and procedure and follow-up actions for emergency response. (65 min)
Pipeline Operator Qualification	LQ901	* LQ: Programmable Logic Controllers	<i>LQ: Programmable Logic Controllers</i> addresses equipment the PLC replaces; the application; hardware functions; operation modes; memory function; installation; calibration and checkout of analog loops; operation of discrete I/O; troubleshooting; timers and counters; documentation; and regulatory requirements. (125 min)
Pipeline Operator Qualification	LQ902	* LQ: Pressure Switches	<i>LQ: Pressure Switches</i> examines the functions of a pressure switch; absolute and gauge pressure; primary and secondary calibration standards; pressure switch inspection, operational testing, and calibration; federal regulations; and abnormal operating conditions (AOCs). (50 min)
Pipeline Operator Qualification	LQ903	* LQ: Pressure Transmitters	<i>LQ: Pressure Transmitters</i> examines pressure transmitter functions; absolute and gauge pressure; primary and secondary calibration standards; pressure transmitter inspection, operational testing, and calibration; documenting calibration results; applicable federal regulations; and abnormal operating conditions (AOCs). (60 min)