

195 Liquids Catalog



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195 Abnormal Operating Conditions

MEA Certificate Numbers TNG - MEA1485
 KNT - MEA1484

Continuing Education Unit (CEU) 0.1

Course Description

This course provides basic information on how to recognize and react to Abnormal Operating Conditions (AOCs) both on the job and during the evaluation process.

Objectives

- Relate the OQ Rule to Abnormal Operating Conditions (AOCs).
- Apply the OQ Rule on the job.
- Provide examples of AOCs.
- Classify AOCs within categories.
- Take appropriate action when reacting to AOCs.
- Describe your role in the evaluation for qualification procedure.
- Identify responsibilities of qualified individuals.

195-0000 Documentation & Reporting

MEA Certificate Numbers TNG - MEA1363
 KNT - MEA1242

Continuing Education Unit (CEU) 0.1

Course Description

The course provides information on the procedures and methods of documenting, reporting, and OQ recordkeeping for DOT pipelines.

Objectives

- Identify and maintain required documentation.
- Identify safety related conditions that require reporting.
- Identify Operator Qualifications (OQ) record keeping requirements.

195-0060 General Abnormal Operating Conditions (CT60)

MEA Certificate Numbers KNT - MEA11862

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on general Abnormal Operating Conditions (AOCs)

Objectives

- Define and understand an abnormal operating condition.
- Recognize and respond to the malfunction or failure of pipeline components.
- Recognize and respond to physical damage to the pipeline system.
- Recognize and respond to the unexpected activation of a safety device.
- Recognize and respond to abnormal facility conditions.

195-0403 Corrosion Monitoring - Internal (CT09)

MEA Certificate Numbers **TNG - MEA1358**
 KNT - MEA1243
 PEF - MEA1194

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on locating and accurately collecting data from corrosion probes, coupons, and samples to monitor corrosion conditions in a pipeline.

Objectives

- Safely extract or insert corrosion coupons.
- Safely extract and insert corrosion probes.
- Properly collect composite or spot samples for analysis of corrosive properties.
- Explain how to recognize and react to abnormal conditions.

195-0404 Prevention of Atmospheric Corrosion (CT06)

MEA Certificate Numbers **TNG - MEA1359**
 KNT - MEA1244
 PEF - MEA1195

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on prevention of atmospheric corrosion as it relates to a DOT pipeline system.

Objectives

- Understand the function of preventing atmospheric corrosion.
- Perform an inspection of coatings.
- Perform surface preparation.
- Perform an application of coatings.
- Recognize and properly react to abnormal operating conditions.

195-0405 Measure Wall Thickness of Pipe (CT07)

MEA Certificate Numbers **TNG - MEA1360**
 KNT - MEA1245
 PEF - MEA1196

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on measuring the wall thickness of a pipe using various methods.

Objectives

- Understand the requirements for measuring the wall thickness of pipe.
- Use a pit depth gauge.
- Use an ultrasonic thickness meter (UST).
- Collect RSTRENG Data.
- Recognize and react to abnormal operating conditions when measuring wall thickness.

195-0406 Inspect Internal Pipe Surfaces (CT13)

MEA Certificate Numbers **TNG - MEA1361**
 KNT - MEA1246
 PEF - MEA1197

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on internal inspections of pipe surfaces for evidence of corrosion.

Objectives

- Recognize different types of internal corrosion and their mechanisms.
- Possess a working knowledge of tools used for internal corrosion evaluation.
- Recognize and react to abnormal operating conditions when inspecting internal pipe surfaces.

195-0407 Application & Repair of External Coatings (CT14)

MEA Certificate Numbers **TNG - MEA1362**
 KNT - MEA1247
 PEF - MEA1198

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on cathodic protection rectifier maintenance and repair as relates to a DOT pipeline system.

Objectives

- Identify and describe the different types of external coatings and how they are applied.
- Identify and describe the actions that must be taken in order to apply and repair external coating.
- Recognize and react to abnormal operating conditions when applying and repairing external coatings.

195-0501 Cathodic Protection: Rectifier Maintenance and Repair (CT04)

MEA Certificate Numbers TNG - MEA1364
 KNT - MEA1248
 PEF - MEA1199

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on cathodic protection rectifier maintenance and repair as they relate to a DOT pipeline system.

Objectives

- Troubleshoot and repair rectifiers.
- Recognize and react to abnormal operating conditions when troubleshooting and repairing rectifiers.

195-0503 Cathodic Protection Systems (CT02)

MEA Certificate Numbers TNG - MEA1365
 KNT - MEA1249
 PEF - MEA1200

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on the procedures and methods involved in assessing and maintaining test leads as they relate to a DOT pipeline system.

Objectives

- Define and understand the function of a test lead and the equipment used to maintain it.
- Correctly inspect and verify test lead continuity.
- Repair or replace damaged test leads.
- Install anodes.
- Explain how to recognize and react to abnormal conditions.

195-0505 Cathodic Protection Systems: Inspect Rectifier (CT03)

MEA Certificate Numbers **TNG - MEA1366**
 KNT - MEA1250
 PEF - MEA1201

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on the procedures and methods involved in inspecting cathodic protection rectifiers as they relate to a DOT pipeline system.

Objectives

- Obtain a voltage and current output readings from rectifier and check for proper rectifier operations.
- Perform cathodic protection rectifiers on/off test.
- Recognize and react to abnormal conditions.
- Recognize and react to abnormal operating conditions when inspecting cathodic protection rectifiers.

195-0514 Cathodic Protection Systems: Conduct Annual Cathodic Protection Surveys (CT01)

MEA Certificate Numbers **TNG - MEA1367**
 KNT - MEA1251
 PEF - MEA1202

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on the procedures and methods involved with conducting annual cathodic protection surveys as they relate to a DOT pipeline system.

Objectives

- Define and understand the function of conducting annual cathodic protection surveys.
- Determine the measurement of structure-to-electrolyte potential.
- Perform close interval survey.
- Perform testing to detect interference.
- Ensure electrical isolation from foreign structures.
- Perform an inspection and electrical test of bonds.
- Complete a visual atmospheric inspection.
- Recognize and react to abnormal operating conditions when conducting annual cathodic protection surveys.

195-0515 Conducting Cathodic Protection Remediation (CT08)

MEA Certificate Numbers TNG - MEA1369
 KNT - MEA1253
 PEF - MEA1204

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on cathodic protection remediation as it relates to a DOT pipeline system.

Objectives

- Electrical bond installation.
- Galvanic and impressed current anode installation.
- Transformer/rectifier installation.
- Test station installation.
- Perform thermite welding procedure.
- Conduct electrolyte resistivity measurements.
- Locating a shorted casing.
- Recognize and properly react to abnormal conditions for conducting cathodic protection remediation.

195-0516 Cathodic Protection Systems: Electrically Inspect Bare Pipe (CT05)

MEA Certificate Numbers TNG - MEA1368
 KNT - MEA1252
 PEF - MEA1203

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on electrical inspection of bare pipe without cathodic protection as it relates to a DOT pipeline system.

Objectives

- Definition and function of electrical inspection of bare pipe.
- Soil resistivity measurements.
- Soil-to-soil potential surveys.
- Recognize and react to abnormal operating conditions when electrically inspecting bare pipe.

195-0721 Joining of Pipe: Threaded Joints (CT0721)

MEA Certificate Numbers KNT - MEA11859
 PEF - MEA11984

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on how to become qualified to perform the covered task Joining Pipe: Threaded Joints.

Objectives

- Properly connect and tighten threaded joints.
- Recognize and properly react to abnormal operating conditions.

195-0801 Provide Temporary Marking of Buried Pipeline Prior to Excavation (CT19)

MEA Certificate Numbers **TNG - MEA1370**
 KNT - MEA1254
 PEF - MEA1205

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on the procedures and methods performed to provide the temporary marking of buried pipelines prior to excavation activity.

Objectives

- Define and understand the function of providing temporary marking of buried pipeline prior to excavation and the equipment used to mark it.
- Locate the designated line.
- Install appropriate temporary markers identifying the line.

195-0804 Inspection After Excavation Activities & Leak Survey After Blasting (CT20)

MEA Certificate Numbers **TNG - MEA1371**
 KNT - MEA1255
 PEF - MEA1206

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on the procedures and methods for inspecting a pipeline following excavation activities and performing leak surveys after blasting.

Objectives

- Define and demonstrate knowledge of inspection procedures performed following excavation activities and leak survey performed after blasting.
- Utilize leak survey techniques.

- Monitor for pressure loss.
- Explain how to recognize and react to abnormal conditions for inspection following excavation activities and leak survey after blasting.

195-0805 Inspecting Existing Pipe Following Movement (CT30)

MEA Certificate Numbers **TNG - MEA1372**
 KNT - MEA1256
 PEF - MEA1207

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on the procedures and methods of inspecting existing pipe following movement.

Objectives

- Define and demonstrate working knowledge of inspecting an existing pipe following movement.
- Inspect the pipeline for secondary stresses, physical damage, corrosion, and coating damage.
- Recognize and react to abnormal operating conditions when inspecting existing pipe following movement.

195-0806 Inspections for Tie-ins, Pipeline Replacements or Other Components (CT34)

MEA Certificate Numbers **TNG - MEA1373**
 KNT - MEA1257
 PEF - MEA1208

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on procedures and methods of inspecting activities for tie-ins, pipeline replacements, or other components connecting to an existing pipeline.

Objectives

- Define and demonstrate working knowledge of inspection activities for tie-ins, pipe replacements, or other components connecting to an existing pipeline.
- Visually inspect pipe and pipe components.
- Verify welder qualifications.
- Ensure proper installation.
- Recognize and react to abnormal operating conditions when inspecting clearance of existing pipe to underground structures.

195-0808 Inspect Buried Pipe When Exposed (CT10)

MEA Certificate Numbers TNG - MEA1374
 KNT - MEA1258
 PEF - MEA1209

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on practices for inspecting buried pipe as it relates to a DOT pipeline system.

Objectives

- Inspect for physical damage.
- Inspect the condition of the pipe coating.
- Inspect for corrosion.
- Explain how to recognize and react to abnormal conditions for inspecting and examining buried pipe when exposed.

195-0809 Inspect, Test and Calibrate Overfill Protective Devices (CT11)

MEA Certificate Numbers TNG - MEA1375
 KNT - MEA1259
 PEF - MEA1210

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information with regard to practices performed to prevent overfilling of breakout tanks.

Objectives

- Define overfill protective devices and their purpose.
- Inspect and calibrate overfill protective devices.
- Explain how to recognize and react to abnormal conditions for inspecting and calibrating overfill protective devices.

195-0810 Inspection of Breakout Tanks (CT18)

MEA Certificate Numbers TNG - MEA1376
 KNT - MEA1260
 PEF - MEA1211

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on the procedures and methods used during the inspection of breakout tanks.

Objectives

- Define and demonstrate a working knowledge of regulatory compliance and inspection requirements for breakout tanks.
- Inspect breakout tanks in accordance with API Standard 653.
- Inspect breakout tanks in accordance with API Standard 510.
- Inspect other breakout tanks.
- Recognize and react to abnormal operating conditions when inspecting breakout tanks.

195-1204 Inspect Surface Conditions of Right of Way, Perform Leak Survey (CT16)

MEA Certificate Numbers TNG - MEA1377
 KNT - MEA1261
 PEF - MEA1212

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information with regard to the procedures and methods of inspecting surface conditions of right of way and performing leak surveys for liquid pipelines.

Objectives

- Inspect surface conditions of right of way.
- Follow the company's reporting protocols.
- Recognize and react to abnormal operating conditions when inspecting surface conditions of right of way and performing leak surveys.

195-1205 Inspect Navigable Waterway Crossings (CT17)

MEA Certificate Numbers TNG - MEA1378
 KNT - MEA1262
 PEF - MEA1213

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on procedures and methods involved with inspecting navigable waterway crossings.

Objectives

- Define and demonstrate working knowledge of inspecting navigable waterway crossings.
- Use probes and sonar devices to determine the depth of cover and verify the location of a pipeline.
- Recognize and properly react to abnormal conditions.

195-1206 Perform Leakage Survey (CT45)

MEA Certificate Numbers TNG - MEA1379
 KNT - MEA1263
 PEF - MEA1214

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information with regard to the procedures and methods used when performing a leakage survey.

Objectives

- Define and demonstrate a working knowledge of leakage surveys and the equipment used to perform them.
- Perform visual surveys.
- Perform a pipeline leakage survey using a combustible gas detector.
- Perform a pipeline leakage survey using a flame ionization detector.
- Recognize and react to abnormal operating conditions when performing leakage surveys.

195-1301 Conduct Pressure Test (CT37)

MEA Certificate Numbers TNG - MEA1380
 KNT - MEA1264
 PEF - MEA1215

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on the procedures and methods of conducting a pressure test to prove the integrity of the pipeline.

Objectives

- Define and understand the function of a pressure test and the equipment used to perform it.
- Conduct a pressure test and record the results.
- Recognize and react to abnormal operating conditions when conducting a pressure test.

195-1401 Abandoning, Safe Disconnect, Purging & Sealing Pipeline Facilities (CT32)

MEA Certificate Numbers TNG - MEA1381
 KNT - MEA1265
 PEF - MEA1216

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on the procedures and methods used when abandoning, disconnecting, purging, and sealing pipeline facilities.

Objectives

- Define and understand the function of requirements for permanently or temporarily decommissioning or removing a pipeline facility from service.
- Safely disconnect pipeline facilities.
- Purge pipeline facilities.
- Seal a disconnected portion of pipeline.
- Recognize and react to abnormal operating conditions when abandoning, safely disconnecting, purging, and sealing of pipeline facilities.

195-1402BF Backfilling a Trench Following Maintenance (CT35)

MEA Certificate Numbers **TNG - MEA1382**
 KNT - MEA1266
 PEF - MEA1217

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on procedures and methods of backfilling a trench following maintenance.

Objectives

- Define and demonstrate working knowledge about the function of backfilling a trench following pipeline maintenance.
- Perform backfilling operations on the pipeline following maintenance.
- Determine if a tamping tool and backhoe are used properly.
- Determine the amount of cover required according to 49 CFR 195.248.
- Explain how to recognize and react to abnormal conditions for backfilling a trench following maintenance.

195-1402MP Moving In-Service Pipe (CT29)

MEA Certificate Numbers **TNG - MEA1383**
 KNT - MEA1267
 PEF - MEA1218

Continuing Education Unit (CEU) **0.1**

Course Description

This discusses procedures and methods involved with moving in-service pipe. The course provides information for field supervisory personnel who will be coordinating and managing the pipeline movement process.

Objectives

- How to determine the allowable line pressure in a section of pipe to be moved.
- How to prepare for pipeline movement activities.
- How to move in-service pipe.
- Abnormal operating conditions and how to respond to them.

195-1405CG Inspection of Clearance of Existing Pipe to Underground Structures (CT31)

MEA Certificate Numbers **TNG - MEA1384**
 KNT - MEA1268
 PEF - MEA1219

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information with regard to procedures and methods of measuring clearances from existing pipe to new underground structures installed by excavation, boring, and directional drilling.

Objectives

- Define and demonstrate working knowledge of inspecting clearances between existing pipes and underground structures as well as equipment used to perform the inspection.
- Assure minimum clearances are maintained and that interference and corrosion control testing are performed during the installation of foreign pipelines or structures.
- Recognize and react to abnormal operating conditions when measuring clearance from existing pipe to underground structures installed by excavation, boring, or directional drilling.

195-1413 Placing and Maintaining Line Markers (CT15)

MEA Certificate Numbers **TNG - MEA1385**
 KNT - MEA1269
 PEF - MEA1220

Continuing Education Unit (CEU) **0.1**

Course Description

This course covers procedures and methods involved with properly marking a pipeline.

Objectives

- Define and understand the placing and maintaining of line markers.
- Locate a pipeline.
- Install a line marker.
- Inspect and maintain line markers and aerial line markers.
- Recognize and react to abnormal operating conditions when placing and maintaining line markers.

195-1414EP Operations of a Pipeline System (Exploration & Production Facility) (CT39.1)

MEA Certificate Numbers **TNG - MEA1386**
 KNT - MEA1270
 PEF - MEA1221

Continuing Education Unit (CEU) **0.1**

Course Description

This course covers procedures and methods involved with properly marking a pipeline system (exploration and production facility).

Objectives

- Identify the activities associated with the safe start-up of a pipeline system.
- Identify the steps necessary for the safe shutdown of a pipeline system.
- Demonstrate knowledge of monitoring and maintenance of pressure, flow, and line integrity.
- Recognize and react to abnormal operating conditions during operation of a pipeline system.

195-1414PS Operations of a Pipeline System (Pipeline Facility) (CT39.2)

MEA Certificate Numbers **TNG - MEA1388**
 KNT - MEA1272
 PEF - MEA1223

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information with regard to procedures and methods of operating a pipeline system.

Objectives

- Identify the activities associated with the safe start-up of a pipeline.
- Identify the steps necessary for the safe shutdown of a pipeline.
- Demonstrate knowledge of monitoring and maintenance of pressures, flows, communications, and line integrity.
- Identify the necessary steps for the manual or remote opening and or closing of a valve or other equipment.
- Identify the necessary steps for the manual or remote opening and or closing of a valve or other equipment.
- Recognize abnormal operating conditions for the task and identify proper responses.

195-1414LR Operate Pressure Relieving Devices on Launching/Receiving Facilities (CT41)

MEA Certificate Numbers **TNG - MEA1387**
 KNT - MEA1265
 PEF - MEA1222

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information in regard to the procedures and methods of operating a pipeline system.

Objectives

- Identify the names and operation of the valves used on a launching facility.
- Explain the sequence of events needed to isolate, relieve pressure, and drain fluids from the launcher barrel.
- Understand the procedures involved with launching a pig.
- Identify the names and operations of the valves used on a receiving facility.
- Understand the procedures involved with receiving a pig.
- Explain the sequence of events needed to isolate, relieve pressure, and drain fluids from the receiver barrel.
- Recognize and react to abnormal operating conditions during launching and receiving activities

195-1418PG Purge a Pipeline (CT48)

MEA Certificate Numbers **TNG - MEA1389**
 KNT - MEA1273
 PEF - MEA1224

Continuing Education Unit (CEU) **0.1**

Course Description

This course discusses the procedures and methods used to purge a pipeline.

Objectives

- Define and understand how to safely purge hydrocarbons or air from a pipeline.
- Remove hydrocarbons from a pipeline.
- Remove air from the pipeline.
- Recognize and react to abnormal operating conditions when purging a pipeline.

195-1422 Internal Corrosion Remediation (CT12)

MEA Certificate Numbers **TNG - MEA1390**
 KNT - MEA1274
 PEF - MEA1225

Continuing Education Unit (CEU) 0.1**Course Description**

This course provides information in regard to internal corrosion remediation as it relates to a DOT pipeline system.

Objectives

- Adjust inhibitor injection rates to achieve an acceptable industry and company standard to prevent internal corrosion.
- Explain how to recognize and react to abnormal conditions for internal corrosion remediation.

195-1424 Installation, Replacement or Repair of Support Structures (CT33)

MEA Certificate Numbers TNG - MEA1391
 KNT - MEA1275
 PEF - MEA1226

Continuing Education Unit (CEU) 0.1**Course Description**

This course provides information with regard to the procedures and methods of installing, replacing or repairing of support structures on existing or new aboveground components.

Objectives

- Define and demonstrate working knowledge of replacement or repair of support structures on existing or new aboveground components.
- Explain activities required to install additional or revised support structure elements to existing aboveground structures.
- Recognize and react to abnormal operating conditions when installing, replacing, or repairing support structures on existing or new above ground components.

195-1427VI Valve Inspection (CT22)

MEA Certificate Numbers TNG - MEA1392
 KNT - MEA1276
 PEF - MEA1227

Continuing Education Unit (CEU) 0.1**Course Description**

This course discusses the procedures and methods involved with inspecting all in-service valves (excluding relief valves) physically connected to a DOT pipeline system. Examples of valves considered to be part of this task include: pump suction, pump discharge, manifold, pressure control, block, check and tank valves.

Objectives

- Inspect valves.
- Conduct a routine walk-around inspection.
- Conduct an external integrity inspection of the valve.
- Perform a function test of the valve.
- Recognize and react to abnormal operating conditions when inspecting valves.

195-1427VM Valve Maintenance (CT42)

MEA Certificate Numbers **TNG - MEA1393**
 KNT - MEA1277
 PEF - MEA1228

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on the procedures and methods of performing maintenance on all valves (except relief valves).

Objectives

- Perform valve body and or actuator/operator maintenance.
- Recognize and react to abnormal operating conditions when performing maintenance on valves.

195-1427VR Valve Repair (CT23)

MEA Certificate Numbers **TNG - MEA1394**
 KNT - MEA1278
 PEF - MEA1229

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on the procedures and methods involved with the repair of all valves (except relief valves).

Objectives

- Understand valve types and components.
- Perform preventive maintenance.
- Repair valves and actuators/operators.
- Recognize and react to abnormal operating conditions when repairing valves.

195-1443 Perform Flange Bolting Procedures (CT43)

MEA Certificate Numbers KNT - MEA11860
PEF - MEA11985

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on how to become qualified to perform the covered task Perform Flange Bolting Procedures.

Objectives

- Identify hazards associated with flange bolting procedures.
- Perform general flange assembly procedures.
- Perform general flange disassembly procedures
- Identify and respond to abnormal operating conditions.

195-1444 Tubing and Tube Fitting: Handling and Installation (CT44)

MEA Certificate Numbers KNT - MEA11861
PEF - MEA11986

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on how to become qualified to perform the covered task Perform Flange Bolting Procedures.

Objectives

- Demonstrate knowledge of instrumentation tubing, tube fittings and tubing componenets.
- Demonstrate the correct methods for handling tubing, tube fittings, and tubing componenets.
- Design or verify a correct layout of a tubing system
- Correctly cut and de-burr metal tubing.
- Perform a correct 90 degree bend of metal tubing.
- Perform installation of a small diameter compression tube fittings.
- Recognize and properly react to abnormal operating conditions.

195-1465 Damage Prevention During Excavation Activities by or on Behalf of the Operator (CT65)

MEA Certificate Numbers KNT - MEA11992
PEF - MEA11993

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on how to become qualified to perform the covered task Damage Prevention During Excavation of In-Service Pipe.

Objectives

- Prepare for excavation activities.
- Perform Inspection activities following excavation.
- Abnormal operating conditions.

195-1506 Operate Odorant Equipment (CT52)

MEA Certificate Numbers **TNG - MEA1395**
 KNT - MEA1279
 PEF - MEA1230

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on procedures and methods involved with operating odorant equipment.

Objectives

- Understand the characteristics of odorants and the requirements for odorants in natural gas pipelines.
- Determine odorization injection rates and test for odorant levels.
- Recognize the different types of odorant injection equipment.
- Operate and maintain an odorant injection system.
- Explain how to recognize and react to abnormal conditions for operating odorant equipment.

195-1804 Inspect, Test, and Calibrate Relief Valves (CT24)

MEA Certificate Numbers **TNG - MEA1396**
 KNT - MEA1280
 PEF - MEA1231

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on the procedures and methods used for inspecting, testing and calibrating relief valves.

Objectives

- Recognize the purpose and function of relief valves.
- Understand the terminology associated with inspecting, testing, and calibrating relief valves.
- Identify the procedures for the inspection, testing, and calibration of relief valves.
- Recognize and react to abnormal operating conditions when inspecting, testing, and calibrating relief valves.

195-1805 Maintain/Repair Relief Valves (CT25)

MEA Certificate Numbers TNG - MEA1397
 KNT - MEA1281
 PEF - MEA1232

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on procedures and methods used to maintain and repair pressure relief valves.

Objectives

- Identify critical parts associated with a relief valve.
- Disassemble, clean, inspect, repair, and replace internal components of a relief valve.
- Repair and calibrate the sensing device and reassemble and reinstall the valve.
- Recognize and react to abnormal operating conditions when maintaining and repairing relief valves.

195-1806 Inspect, Test and Calibrate Pressure Limiting Devices (CT26)

MEA Certificate Numbers TNG - MEA1398
 KNT - MEA1282
 PEF - MEA1233

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on the procedures and methods used for inspecting, testing and calibrating pressure limiting devices.

Objectives

- Recognize and locate pressure limiting devices.
- Identify procedures for isolation or removal of a pressure limiting device.
- Inspect, test, and calibrate pressure limiting devices.
- Repair and reinstall pressure limiting devices.
- Recognize and react to abnormal operating conditions.

195-1807 Inspect, Test and Calibrate Pressure Switches and Transmitters (CT27)

MEA Certificate Numbers TNG - MEA1399
 KNT - MEA1283
 PEF - MEA1234

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on procedures and methods for inspecting, testing, and calibrating pressure switches and transmitters.

Objectives

- Identify types of testing methods and when they are used.
- Inspect, test, and calibrate pressure switches and transmitters.
- Recognize and react to abnormal operating conditions when inspecting, testing, and calibrating pressure switches and transmitters.

195-1808 Programmable Logic Controllers (CT28)

MEA Certificate Numbers **TNG - MEA1400**
 KNT - MEA1284
 PEF - MEA1235

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on procedures and methods involved with verifying or setting protection parameters for programmable controllers and/or instrumentation control loops as they relate to a DOT pipeline system.

Objectives

- Understanding the functions of a PLC and elements that are involved.
- Verify data set points, parameters and data location within PLC program.
- Calibrate, test, and document system set points.
- Recognize and react to abnormal operating conditions when verifying or setting protection for programmable controllers and/or other instrumentation control loops.

195-1819 Testing an Emergency Shutdown Device (CT50)

MEA Certificate Numbers **TNG - MEA1401**
 KNT - MEA1285
 PEF - MEA1236

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on procedures and methods involved with testing an emergency shutdown device, including remote control shutdown devices.

Objectives

- Define and understand the function of testing emergency shutdown systems.

- Test emergency shutdown systems.
- Explain how to recognize and react to abnormal conditions for testing an emergency shutdown system.

195-2301 Perform Incremental Pressure Increases (CT51)

MEA Certificate Numbers **TNG - MEA1402**
 KNT - MEA1286
 PEF - MEA1237

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on procedures and methods of performing incremental pressure increases to uprate maximum allowable operating pressure on an existing line segment.

Objectives

- Identify and demonstrate a working knowledge of performing incremental pressure increases to uprate maximum allowable operating pressure.
- Perform incremental pressure increases.
- Recognize and react to abnormal operating conditions when performing incremental pressure increases in order to uprate MAOP.

195-2401 Maintenance Welding on Pipelines (CT38)

MEA Certificate Numbers **TNG - MEA1403**
 KNT - MEA1287
 PEF - MEA1238

Continuing Education Unit (CEU) **0.1**

Course Description

This course provides information on the procedures and methods used for maintenance welding on pipelines.

Objectives

- Supervise, inspect and or perform maintenance welding on pipelines.
- Repair arc burns.
- Repair defective welds other than welds containing cracks.
- Repair a cover pass on a weld containing a defect other than a crack.
- Repair butt welds containing cracks.
- Repair previously repaired areas.
- Replace welds or cylinders of pipe.
- Recognize and react to abnormal operating conditions when performing maintenance welding on pipelines.

195-2705 CPM Leak Detection (CT40)

MEA Certificate Numbers TNG - MEA1404
 KNT - MEA1288
 PEF - MEA1239

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on the procedures and methods of performing leak detection with Computational Pipeline Monitoring (CPM).

Objectives

- Understand functions of CPM equipment.
- Test, calibrate, repair, replace, and maintain CPM equipment.
- Verify that the leak detection system meets design specifications.
- Explain how to recognize and react to abnormal conditions to perform CPM leak detection techniques that assist in maintaining the integrity of a pipeline system.

195-3001 Provide Security for Pipeline Facilities (CT21)

MEA Certificate Numbers TNG - MEA1405
 KNT - MEA1289
 PEF - MEA1240

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on procedures and methods involved with providing protection to pipeline facilities.

Objectives

- Provide protection to the pipeline facilities.
- Recognize and react to abnormal operating conditions when providing security for pipeline facilities.

195-3605 Perform General Pipeline Repair Activities (CT36)

MEA Certificate Numbers TNG - MEA1406
 KNT - MEA1290
 PEF - MEA1241

Continuing Education Unit (CEU) 0.1

Course Description

This course provides information on procedures and methods of performing general pipeline repair.

Objectives

- Identify and demonstrate knowledge of procedures used for general pipeline repair activities.
- Install tight fitting sleeves.
- Install oversleeves.
- Install composite wrap sleeves.
- Install mechanical split repair sleeves.
- Install mechanical couplings.
- Perform hot tapping.
- Install pipeline plugs.