Level One

MODULE 62103-02 - RELEASE IDENTIFICATION AND RESPONSE

- Transparencies and blank transparencies
- Markers/chalk
- Pencils and scratch paper
- Plastic painter’s drop cloth
- Shoebox lined with heavy-duty plastic wrap or plastic box of similar size
- Small bag of sand mixed with garden soil and rocks
- Garden trowel
- Wide, shallow plastic bowl
- Bottle of water
- Flexible plastic tubing
- Small bottle of automobile oil
- Plastic trash bags
- Paper towels
- Module Examinations
- Performance Profile Sheets
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment
MODULE 62104-02 – TOOLS OF THE TRADE

Transparencies
Felt-tip markers/chalk
Blank acetate sheets
Transparency pens
Pencils and scratch paper
Copies of the Quick Quiz
Module Examinations
Performance Profile Sheets
Overhead projector and screen
Whiteboard/chalkboard
Appropriate personal protective equipment
Probe rod
Assorted types of wrenches, including bolt-thru ratchets and hammer/slug wrenches
Banding tool and band
Rotary pipe cutter
Flange spreaders
Line plugging/stoppling equipment
Assorted pit gauges
Assorted lengths of pipe of different thicknesses
Hand drilling and tapping machines
Multi-gas monitor
Line locator
Dye penetrant

MODULE 62105-02 – PIPELINE DOCUMENTATION

Transparencies and blank transparencies
Markers/chalk
Highlighter
Pencils and scratch paper
Masking tape or pushpins
Graph paper
Module Examinations
Performance Profile Sheets
Overhead projector and screen
Whiteboard/chalkboard
Elevation scale
Samples of topographic maps, strip maps, piping and instrumentation diagrams (P&IDs), and electrical blueprints
Appropriate personal protective equipment
MODULE 62106-02 - PREVENTING PIPELINE DAMAGE

- Transparencies
- Felt-tip markers/chalk
- Posterboard
- Blank acetate sheets
- Transparency pens
- Pencils and scratch paper
- Tape or tacks
- Strip maps (in addition to the trainee book)
- Copies of the Performance Verification for Covered Tasks in 14 and 28
- Copies of the Quick Quiz
- Module Examinations
- Performance Profile Sheets
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment
- Probe
- Line locator

MODULE 62107-02 - EXCAVATING AND BACKFILLING

- Transparencies and blank transparencies
- Markers/chalk
- Pencils and scratch paper
- Empty 3’ x 3’ x 3’ cardboard box
- Tape measure
- Stick locator
- Sample permanent pipeline marker
- Electromagnetic (battery-operated) locator
- Split box locator
- Induction set
- Copies of the Quick Quiz
- Module Examinations
- Performance Profile Sheets
- Copies of the Performance Verification for Covered Tasks 17 and 39
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment

The instructor will determine the number of the following items needed based on class size:
- Plastic buckets
- Two-liter water bottles
- Small bags of various soil types (sand, potting soil, clay, fill dirt, and so on)
- Garden trowels or large spoons
Level Two

MODULE 62201-03 – RIGHT-OF-WAY INSPECTION

- Transparencies
- Markers/chalk
- Blank acetate sheets
- Transparency pens
- Pencils and paper
- Module Examinations
- Performance Profile Sheets
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment
- Copies of your company’s policy and procedures manual
- Probing/sonar equipment
- Copies of 49 CFR Part 195 (Liquid) and/or 49 CFR Part 192 (Gas)
- Copies of a blank pipeline report form
- Samples of drawings of navigable water crossings
- Copies of the Performance Verifications for Covered Tasks 15 and 16

MODULE 62202-03 – FACILITY INSPECTION

- Transparencies
- Markers/chalk
- Blank acetate sheets
- Transparency pens
- Pencils and paper
- Module Examinations
- Performance Profile Sheets
- Copies of Quick Quiz
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment
- Copies of your company’s policy and procedures manual
- Copies of 49 CFR Part 195 (Liquid) and/or 49 CFR Part 192 (Gas)
- Equipment required for security system inspection
- Equipment required for pipeline facility inspection
- Equipment required for monthly inspection of a tank
- Copies of API Standard 653
- Equipment for performing a 5-year in-service inspection of a tank
- Copies of the Performance Verifications for Covered Task 27
MODULE 62203-03 – VALVE INSPECTION

Transparencies
Markers/chalk
Blank acetate sheets
Transparency pens
Pencils and paper
Module Examinations
Performance Profile Sheets
Copies of Quick Quiz
Overhead projector and screen
Whiteboard/chalkboard
Appropriate personal protective equipment
Copies of 49 CFR Part 195 (Liquid) and/or 49 CFR Part 192 (Gas)
Copies of your company’s policy and procedures manual
A variety of valves
Copies of Figure 17 with callouts covered (leave callout lines exposed)
Copies of a complete valve maintenance log
Equipment required for removing and repacking a valve
Equipment required for lubricating a valve
Equipment required for winterizing a valve
Copies of the Performance Verifications for Covered Task 20†

MODULE 62204-03 – PIPELINE COATING INSPECTION

Transparencies
Markers/chalk
Blank acetate sheets
Transparency pens
Pencils and paper
Module Examinations
Performance Profile Sheets
Copies of Quick Quiz
Overhead projector and screen
Whiteboard/chalkboard
Appropriate personal protective equipment
Copies of your company’s policy and procedures manual
Samples of various types of coating
Examples (or pictures) of various types of coating failure
Pearson holiday detector
Samples of pitted steel and rusted metal
Inspection equipment, including pipeline inspection report forms
Copies of the Performance Verifications for Covered Task 5†
Copies of 49 CFR Part 195 (Liquid) and/or 49 CFR Part 192 (Gas)
MODULE 62205-03 – PIPELINE INSPECTION AND NONDESTRUCTIVE TESTING

- Transparencies
- Markers/chalk
- Blank acetate sheets
- Transparency pens
- Pencils and paper
- Module Examinations
- Performance Profile Sheets
- Overhead projector and screen
- Whiteboard/chalkboard
- Copies of 49 CFR Part 195 (Liquid) and/or 49 CFR Part 192 (Gas)
- Appropriate personal protective equipment
- Copies of your company’s policy and procedures manual
- Inspection equipment and pipe components
- Material and equipment for a pre-fit-up inspection
- Material and equipment for a fit-up inspection
- Samples of root passes that failed inspection
- Flexible fiberscope and/or videoscope
- Copies of Table 1
- Copies of the Performance Verifications for Covered Tasks 38.1, 38.2, and 38.3

MODULE 62207-03 – HYDROSTATIC TESTING

- Transparencies
- Markers/chalk
- Blank acetate sheets
- Transparency pens
- Pencils and paper
- Module Examinations
- Performance Profile Sheets
- Copies of Quick Quiz
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment
- Copies of 49 CFR Part 195 (Liquid) and/or 49 CFR Part 192 (Gas)
- Copies of your company’s policy and procedures manual
- Required equipment for conducting a pressure test
- Copies of the Performance Verifications for Covered Task 41
Level Three

MODULE 62301-03 – GENERAL MAINTENANCE AND WINTERIZING PIPELINE EQUIPMENT

- Transparencies
- Markers/chalk
- Blank acetate sheets
- Transparency pens
- Pencils and scratch paper
- Module Examination
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment
- Copies of 49 CFR Part 192 (Gas) and/or 49 CFR Part 195 (Liquid)
- Copies of your company policy and procedures manual
- Vibration meter
- Bearings that have loose and/or cracked housings, loose bolts, and seal problems
- A variety of machine monitoring equipment, including
  - Surface thermometers
  - Stethoscopes and microphones
  - Vibration monitors
  - Balancing machines
- Variety of pump maintenance cards or computerized maintenance management system records
- Manufacturer’s instruction manual for the service and maintenance of the following:
  - Pump or prime movers
  - Gas compressors
  - Tank mixers
MODULE 62302-03 – PIPELINE DAMAGE INSPECTION

- Transparencies
- Markers/chalk
- Blank acetate sheets
- Transparency pens
- Pencils and scratch paper
- Module Examinations
- Performance Profile Sheets
- Copies of Performance Verifications for Covered Tasks 34 and 35**
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment
- Copies of 49 CFR Part 192 (Gas) and/or 49 CFR Part 195 (Liquid)
- Copies of your company policy and procedures manual
- Lists of information that a One-Call operator would request
- Battery-powered locator
- Pipeline strip maps and alignment sheets
- Search records and maps for a company pipeline
- As-built records or maps for a foreign pipeline or structure
- Blank copies of an exposed pipe report (or foreign line crossing report)
- Blank copies of a typical report form
- Sections of pipeline with and without coating damage
- Sections of damaged pipeline insulation
- Materials necessary to patch pipeline insulation, including
  - Cleaning materials
  - Insulation knives
  - Dow Styrofoam HI-60 (or similar foam)
  - Mastic
MODULE 62303-03 – PERFORMING IN-LINE INSPECTIONS

- Transparencies
- Markers/chalk
- Blank acetate sheets
- Transparency pens
- Pencils and scratch paper
- Module Examinations
- Performance Profile Sheets
- Copies of Quick Quiz
- Copies of Performance Verifications for Covered Task 29†
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment
- Copies of 49 CFR Part 192 (Gas) and/or 49 CFR Part 195 (Liquid)
- Copies of your company policy and procedures manual
- Photos or samples of cleaning pigs, including
  - Foam pigs
  - Brush-equipped pigs
  - Scraper disc and cone-equipped pigs
  - Gel pigs
- Photos or samples of sizing pigs, including
  - Caliper pigs
  - Pipe deformation pigs
- Vendor manuals for handling and preventing damage to pigs
- Sample hard copies and CD-based sets of data obtained by in-line inspection tools
- Sample rubbings and/or tracings
- Materials to take rubbings and tracings
- Sample dig sheets
- Completed inspection report forms
- Sections of damaged pipe
- Blank inspection report forms
- Sample repair schedules
MODULE 62304-03 – PIPELINE REPAIR

Transparencies
Markers/chalk
Blank acetate sheets
Transparency pens
Pencils and scratch paper
Module Examinations
Performance Profile Sheets
Copies of Quick Quiz
Copies of Performance Verifications for Covered Tasks 9.5, 37, 40.1–40.5, 40.7, and 40.91
Overhead projector and screen
Whiteboard/chalkboard
Appropriate personal protective equipment
Copies of 49 CFR Part 192 (Gas) and/or 49 CFR Part 195 (Liquid)
Copies of your company policy and procedures manual
Blank repair reports
News articles about accidents that occurred during pipeline repair and/or maintenance
Sections of damaged and undamaged pipe
A variety of split sleeves, including
  PLIDCO® Split+Sleeves
  LDS sleeves
    Pressure-containment sleeves (with and without collars)
A variety of pipe sleeves, including
  Oversleeves
  Tight-fitting sleeves
  Clock Spring® sleeves
Materials to perform wire buffing and abrasive blasting
Materials to install a pig-detectable patch, including
  Pig-detectable patches
  Filler material
  Epoxy
  Fiberglass tape
  Approved coating
Weld Plus couplings
MODULE 62305-03 – RELOCATING AND LOWERING PIPELINES

- Transparencies
- Markers/chalk
- Blank acetate sheets
- Transparency pens
- Pencils and scratch paper
- Module Examinations
- Performance Profile Sheets
- Copies of Performance Verifications for Covered Tasks 33 and 34
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment
- Copies of 49 CFR Part 192 (Gas) and/or 49 CFR Part 195 (Liquid)
- Copies of your company policy and procedures manual
- Sample pipeline movement plan
- Pipeline alignment sheets
- Pipeline markers
- Sections of pipe
- Pipe locators
- Line markers
- Probe rods
- Soil samples for class A, B, and C soils
- Containers, buckets, and hand spades
- Pipeline inspection forms
MODULE 62306-03 – HOT TAPPING AND STOPPLING® – 2½" AND LARGER

Transparencies
Markers/chalk
Blank acetate sheets
Transparency pens
Pencils and scratch paper
Module Examinations
Performance Profile Sheets
Copies of Performance Verifications for Covered Task 40
Overhead projector and screen
Whiteboard/chalkboard
Appropriate personal protective equipment
Copies of 49 CFR Part 192 (Gas) and/or 49 CFR Part 195 (Liquid)
Copies of your company policy and procedures manual
Copies of Figures 1 through 3 without titles
Pipe coupon
Hole saw
Hot tap machine
Tools and materials to install and operate a hot tap machine
Hot tap machine manufacturers’ manuals
Stopple® fittings
Tools and materials to install and remove Stopple®
LOCK-O-RING® plugs
Tools and materials to set completion plugs
MODULE 62307-03 – TANK REPAIR

Transparencies
Markers/chalk
Blank acetate sheets
Transparency pens
Pencils and scratch paper
Module Examinations
Performance Profile Sheets
Overhead projector and screen
Whiteboard/chalkboard
Appropriate personal protective equipment
Copies of 49 CFR Part 192 (Gas) and/or 49 CFR Part 195 (Liquid)
Copies of your company policy and procedures manual
Copies of API Standards 650 and 653
Bolts and nuts
Variety of flanges with different numbers of bolts
Sample radiograph films
Weld maps
Ultrasonic monitor
Insulated flanges and bolts
Insulator checker
Procedure documentation for roof jacking
Photos of arc burns
Inspection tags
Drawings that show mark locations on shell, bottom, and roof plates
*Figure 20* with the callouts covered
Aqueous film-forming foam with a fire extinguisher applicator
MODULE 62308-03 – MAINTENANCE WELDING ON PIPELINES

- Transparencies
- Markers/chalk
- Blank acetate sheets
- Transparency pens
- Pencils and scratch paper
- Module Examinations
- Performance Profile Sheets
- Copies of Performance Verifications for Covered Task 42
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment
- Copies of 49 CFR Part 192 (Gas) and/or 49 CFR Part 195 (Liquid)
- Copies of your company policy and procedures manual
- Copies of API Standard 1104, 18th edition
- Metal panels with arc burns
- Pencil grinders and/or sanders
- Etching solutions
- Metal panels with defective butt and fillet welds
- Metal panels with repaired direct pass defects
- Metal panel with a butt weld containing cracks
- Materials for magnetic particle or dye penetrant inspection
- Metal panel with a previously repaired weld
- Tools and materials to preheat the area
- Sections of metal pipe
- Jumper cables
- Tools and materials to make field cuts
- Expandable plugs and/or gas bags
- External lineup clamps
- Procedure specification forms
MODULE 62309-03 – PERFORMING PIPELINE DISCONNECTION PROCEDURES

- Transparencies
- Markers/chalk
- Blank acetate sheets
- Transparency pens
- Pencils and scratch paper
- Module Examinations
- Performance Profile Sheets
- Copies of Performance Verifications for Covered Task 36
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment
- Copies of 49 CFR Part 192 (Gas) and/or 49 CFR Part 195 (Liquid)
- Copies of your company policy and procedures manual
- Examples of appropriate personal protective equipment, including
  - Fire retardant clothing
  - Hearing protection
  - Gloves
  - Safety glasses
  - Hard hats
  - Safety boots
  - Respiratory protection
- Examples of safety equipment, including
  - Atmospheric monitors
  - Personal monitors
  - Personal hydrogen sulfide monitors
  - Bonding cables
  - Fire extinguishers
- Pipe segment
- Bonding cable
- Grounding clamps
- Sample abandonment reports
- Combustible gas detectors
- Draeger tubes
- Copies of news articles highlighting accidents that occurred during purging procedures
Transparencies
Markers/chalk
Blank acetate sheets
Transparency pens
Pencils and scratch paper
Module Examinations
Performance Profile Sheets
Copies of Performance Verifications for Covered Task 59
Overhead projector and screen
Whiteboard/chalkboard
Appropriate personal protective equipment
Copies of 49 CFR Part 192 (Gas) and/or 49 CFR Part 195 (Liquid)
Copies of your company policy and procedures manual
Sample permits
OSHA Publication No. 3132, Title 29 Code of Federal Regulations Part 1910.146
Combustible gas indicator
MODULE 62401-03 – RADIOGRAPHIC TESTING OF PIPELINE WELDS

Transparencies
Markers/chalk
Blank acetate sheets
Transparency pens
Pencils and scratch paper
Overhead projector and screen
Whiteboard/chalkboard
Appropriate personal protective equipment
Copies of API Standard 1104, Welding of Pipelines and Related Facilities
Copies of your company policy and procedures manual
Manual film processing equipment
Automatic film processing equipment
Film badge
Thermoluminescent dosimeter (TLD)
OSL dosimeter
Alarming rate meter
Ion chamber survey meter
Geiger Mueller (GM) rate meter
Area alarm monitor
Exposure calculator
Exposure charts
Radiographic film in different packaging
Flexible, semi-rigid, and rigid film cassettes
Hole-type and wire-type penetrators
Selection of welded pipe sections
Intensifying screens
Module Examinations
Performance Profile Sheets
Copies of the Performance Verification for Covered Task 38.4