Practical Pipeline Repair In-Person Training – Course Outline

January 2024

1 Practical Pipeline Repair Training

1.1 Course Description

This course allows participants to enhance their foundational understanding of pipeline repair. An industry-leading subject matter expert instructor will guide the class through interactive group-based repair scenario activities to enrich the learning experience and deepen understanding by exploring nonroutine repair situations (e.g., wetland, bend, slope). Through the structured interactive repair scenarios, the course provides students with opportunities to learn from an experienced Instructor, as well as peers, to better understand how to consider a range of situations and apply the guidance outlined in the Pipeline Research Council International (PRCI) *Pipeline Repair Manual: 2021 Edition* (PR186204504).

For this course, participants should have their own copy of the PRCI *Pipeline Repair Manual.*

It is highly recommended that individuals have taken the PRCI Fundamentals of Pipeline Repair Online Course before attending this course.

1.2 Learning Objectives

By the end of the course, participants should be able to:

1. Understand the typical processes by which suitable repair type(s) are determined for pipeline anomalies or defects.
2. Recognize how the *Pipeline Repair Manual* can support making most repair decisions.
3. Demonstrate the ability to determine appropriate repair methods for several non-routine situations.

1.3 Who Should Take This Course

The purpose of this course is to ensure that the participants continue skill-building through the application of the concepts contained within the PRCI *Pipeline Repair Manual* to nonroutine repair situations. The course is best suited for:

- Individuals who are actively involved with pipeline repair processes and looking to extend their capabilities in practical situations; this includes individuals responsible for decision making, execution, monitoring, and supporting related activities.
- Individuals who are familiar with relatively routine pipeline repair situations and looking to expand their capabilities to nonroutine situations.

1.4 Course Structure and Delivery

This in-person course takes place over 1.5 days and the instructor-led learning format is structured to align with the PRCI *Pipeline Repair Manual*. Main topic areas include:

1. Overview of *Pipeline Repair Manual* Structure and Content
2. Overview of Typical Repair Process
3. Introduction to Typical Repair Process
    a. Step 1: Anomaly or Defect has been Detected
    b. Step 2: Respond to Discovery of Anomaly or Defect
    c. Step 3: Review Pipeline Repair Methods
    d. Repair Scenario 1
    e. Step 4: Determine Appropriate Repairs for Various Defect Types
    f. Repair Scenarios 2
    g. Step 5: Review Guidelines for Repair Procedure
    h. Repair Scenarios 3
4. Closeout/Feedback