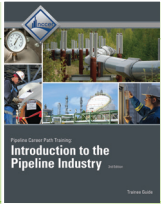




# Introduction to the Pipeline Industry

## INTRODUCTION TO THE PIPELINE INDUSTRY



### Curriculum Notes

- 100 Hours
- To Be Released: 2017, Third Edition
- *Core Curriculum* is a prerequisite to most Level 1 completions and must be purchased separately.
- *Instructor's Package* includes access to lesson plans, PowerPoints® and performance exams available from the Instructor Resource Center at [www.nccerirc.com](http://www.nccerirc.com).

### PAPERBACK

### ISBN

Trainee Guide: \$100      **978-0-13-480566-5**  
 Instructor's Guide: \$100      **978-0-13-479539-3**

### MODULES

All of the modules listed below are included in the Trainee and Instructor Guide(s) listed above. The following pricing information is for ordering individual modules which can be purchased through the online bookstore at [www.nccer.org/bookstore](http://www.nccer.org/bookstore).

### Introduction to the Pipeline Industry (15 Hours)

Trainee \$20      ISBN 978-0-13-038223-8  
 Instructor \$20      ISBN 978-0-13-038234-4  
 (Module ID 66101-02) Introduces the pipeline industry, including pipeline products and flow paths, maps and drawings used in the industry, and basic pipeline operations. Also covers hydraulics, pipeline equipment, electrical power systems, and corrosion control. Regulations, documentation, and pipeline industry occupations are also described.

### Tools of the Trade (7.5 Hours)

Trainee \$20      ISBN 978-0-13-415137-3  
 Instructor Package \$20      ISBN 978-0-13-415258-5  
 (Module ID 62104-02) Explains use and care of hand and power tools used in the pipeline industry. Describes the use of welding equipment and meters and testers. Also discusses nondestructive testing and the uses of hydraulic cranes and heavy excavating equipment.

### Introduction to Pipeline Documents (5 Hours)

Trainee \$20      ISBN 978-0-13-415138-0  
 Instructor Package \$20      ISBN 978-0-13-415259-2  
 (Module ID 62105-02) Identifies alignment sheets used in the pipeline industry including maps, P&IDs, and electrical drawings. Also describes the types of documentation and document management required in the industry.

### Basic Pipeline Pneumatics and Equipment (10 Hours)

Trainee \$20      ISBN 978-0-13-038244-3  
 Instructor \$20      ISBN 978-0-13-038251-1  
 (Module ID 67102-02) Introduces the basics of pneumatic equipment. Topics include pneumatic safety and the physical characteristics of gas. A discussion of compressors, valves, meters, and other pipeline equipment and an overview on pipeline design also are included.

### Basic Pipeline Hydraulics and Equipment (10 Hours)

Trainee \$20      ISBN 978-0-13-038226-9  
 Instructor \$20      ISBN 978-0-13-038236-8  
 (Module ID 60102-02) Explains pipeline hydraulics safety, basic principles of hydraulic systems, hydraulic properties of petroleum products, pipeline design factors, and basic pipeline equipment.

### Pipeline Communications (7.5 Hours)

Trainee \$20      ISBN 978-0-13-038227-6  
 Instructor \$20      ISBN 978-0-13-038237-5  
 (Module ID 60103-02) Introduces channels of communications that must exist in pipeline operations, including internal communications with scheduling, operations, and maintenance; and external communications with contractors, the general public, regulatory agencies, and local, state, and federal government.

### Pipeline Operations (40 Hours)

Trainee \$20      ISBN 978-0-13-038370-9  
 Instructor \$20      ISBN 978-0-13-038389-1  
 (Module ID 64106-02) Describes pipeline system hydraulics and ASME ratings and standards. Discusses station control systems and recognizing and responding to AOCs. Also covers pigging operations and proving process meters.

### Release Identification and Response (5 Hours)

Trainee \$20      ISBN 978-0-13-415136-6  
 Instructor \$20      ISBN 978-0-13-415256-1  
 (Module ID 62103-02) Describes company environmental manuals and the DNR and EPA regulations. Explains the NRC and Coast Guard responsibilities and spill prevention. Covers soil contamination, release reporting and containment, hydrostatic testing, flaring/venting, and trash handling.

