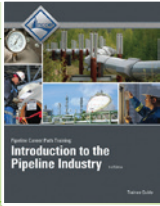


INTRODUCTION TO THE PIPELINE INDUSTRY



Curriculum Notes

- 175 Hours (includes Core)
- Revised: 2017, Third Edition
- Downloadable instructor resources that include module tests, PowerPoints®, and performance profile sheets are available at www.nccer.org/irc.

PAPERBACK

Trainee Guide: \$104.99

ISBN

978-0-13-480566-5

MODULES

The modules listed below are included in the Trainee Guide. The following ISBNs are for ordering individual modules only.

Introduction to the Pipeline Industry (15 Hours)

ISBN 978-0-13-038223-8

(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)

ISBN 978-0-13-415137-3

(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.

Pipeline Documentation (5 Hours)

ISBN 978-0-13-415138-0

(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)

ISBN 978-0-13-038244-3

(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)

ISBN 978-0-13-038226-9

(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)

ISBN 978-0-13-038227-6

(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)

ISBN 978-0-13-038370-9

(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)

ISBN 978-0-13-415136-6

(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.