

L1 GAS PIPELINE OPERATIONS

LEVEL 1

Curriculum Notes

- 197.5 Hours (Includes 72.5 hours of Core Curriculum which is a prerequisite for Level 1 completion and must be purchased separately. See p. 10 for ordering information.)
- Published: 2002
- Instructor's Guide includes access code to download TestGen software, module exams, and performance profiles from www.nccerirc.com.

PAPERBACK

ISBN

Trainee Guide: \$100

978-0-13-046671-6

Instructor's Guide: \$100

978-0-13-046672-3

MODULES

All of the modules listed below are included in the Trainee and Instructor Guide(s) listed above. The following ISBN and pricing information is for ordering individual modules only.

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; *Pipeline Core*) 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.

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.

Pipeline Communications (10 Hours)

Trainee \$20

ISBN 978-0-13-038245-0

Instructor \$20

ISBN 978-0-13-038252-8

(Module ID 67103-02) Stresses the importance of clear communication between pipeline employees. Topics include issuing work orders and callouts, communications between shifts, and communications with regulatory agencies and the general public. Focuses on the importance of communication to safety, customer service, and the company's reputation.

Routine Field and Facility Operations

(CT 50, 51, 54, 56, 57, 58, and 65) (30 Hours)

Trainee \$20

ISBN 978-0-13-038247-4

Instructor \$20

ISBN 978-0-13-038254-2

(Module ID 67104-02) Provides an overview of daily tasks performed in the field and the pipeline facility. Topics include performing routine facility inspections, operating valves and compressors, purging the pipeline, testing remote control shutdown devices, operating odorant equipment and monitoring odorant level (when applicable), uprating the pipeline MAOP, performing system startup and shutdown, and pigging.

Routine Control Center Operations

(CT 50, 51, 54, 56, 57, 58, and 65) (30 Hours)

Trainee \$20

ISBN 978-0-13-038246-7

Instructor \$20

ISBN 978-0-13-038253-5

(Module ID 67105-02) Provides an overview of the daily tasks performed in a pipeline's control center, including the use of the SCADA system. Topics include manifold and compressor operations, system startup and shutdown, pigging, purging pipelines, testing remote control shutdown devices, uprating the MAOP, and operating odorant equipment and monitoring odorant level (when applicable).

Quality Control and Measurement (20 Hours)

Trainee \$20

ISBN 978-0-13-038240-5

Instructor \$20

ISBN 978-0-13-038257-3

(Module ID 67106-02) Focuses on the importance of quality control and accurate measurement as they affect safety, customer service, and the company's reputation. Topics include taking samples, performing product testing, and product testing and measurement tools.

Abnormal Operating Conditions (10 Hours)

Trainee \$20

ISBN 978-0-13-038265-8

Instructor \$20

ISBN 978-0-13-038275-7

(Module ID 67107-02) Provides an overview of the types of abnormal operating conditions (AOCs) that may occur on the pipeline or in company facilities. Appropriate responses to AOCs are covered with a focus on following company policy to protect lives and pipeline equipment. Also covered are the reports required by federal law.