

L1 LIQUID PIPELINE CONTROL CENTER OPERATIONS

LEVEL 1

Curriculum Notes

- 195 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

978-0-13-046674-7

Instructor's Guide: \$100

978-0-13-046675-4

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)

(Module ID 66101-02; *Pipeline Core* ; see p. 77)

Trainee \$20

ISBN 978-0-13-038223-8

Instructor \$20

ISBN 978-0-13-038234-4

Control Center Abnormal Operating Conditions (5 Hours)

Trainee \$20

ISBN 978-0-13-038267-2

Instructor \$20

ISBN 978-0-13-038276-4

(Module ID 65102-02) Introduces the abnormal operating conditions that can occur on a pipeline or in a pipeline facility. Explains how to recognize and react to abnormal operating conditions from the control center and the necessary documentation and notifications that must be completed when responding to these conditions.

Basic Pipeline Hydraulics and Equipment

(10 Hours)

Trainee \$20

ISBN 978-0-13-038259-7

Instructor \$20

ISBN 978-0-13-038268-9

(Module ID 65103-02) 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 978-0-13-038261-0

Instructor \$20

ISBN 978-0-13-038260-3

(Module ID 65104-02) Introduces channels of communication 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.

Monitoring Pipeline Operations – Control Center (CT 64.3) (30 Hours)

Trainee \$20

ISBN 978-0-13-038262-7

Instructor \$20

ISBN 978-0-13-038271-9

(Module ID 65105-02) Introduces concepts, theories, and applications of the SCADA computer system. Explains how to monitor and prioritize the various alarms and functionalities of the SCADA system, perform pipeline system and pipeline station monitoring activities with the SCADA system, and document pipeline activities with the SCADA system.

Routine Control Center Operations

(CT 64.1, 64.2, and 64.4) (35 Hours)

Trainee \$20

ISBN 978-0-13-038263-4

Instructor \$20

ISBN 978-0-13-038272-6

(Module ID 65106-02) Introduces the theories, concepts, and operation of tanks and explains how to perform pump and manifold operations. Also explains how to start up and shut down a pipeline system through the control center.

Liquid Pipeline Measurement and Quality Control (20 Hours)

Trainee \$20

ISBN 978-0-13-038264-1

Instructor \$20

ISBN 978-0-13-038273-3

(Module ID 65107-02) Explains how to activate tank mixing devices, perform product testing, and perform pipeline grade changes and tank capacity operations. Also explains how to use and inject appropriate additives, identify types of meters, maintain accurate measurement on all custody receipts, and the processes and techniques used to prove meters.