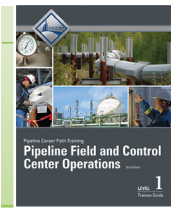




Pipeline Field and Control Center Operations

L1 PIPELINE FIELD AND CONTROL CENTER OPERATIONS



LEVEL 1

Curriculum Notes

- 115 Hours
- 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
Individual Modules: \$24.99

ISBN

978-0-13-480570-2
see module list

MODULES

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

Quality Control and Measurement (20 Hours)

ISBN 978-0-13-038240-5

(Module ID 60106-02) 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.

Product Batch and Pig Tracking (10 Hours)

ISBN 978-0-13-038228-3

(Module ID 60104-02) Describes how to track pipeline product line inventories; handle scheduled pipeline shipments; identify product interface changes; and launch, receive, and track pigs through the pipeline and facility.

Field Quality Control (15 Hours)

ISBN 978-0-13-038231-3

(Module ID 60107-02) Introduces field quality control procedures including activation of tank mixing devices, collection of product samples, product testing, pipeline switching, product blending operations, and injection of appropriate additives.

Field Measurement (20 Hours)

ISBN 978-0-13-038232-0

(Module ID 60108-02) Introduces techniques used in field measurement of products in the pipeline, including measurement components, types of meters, measurement of custody transfers and receipts, verification of meter accuracy, waterdraw calibration techniques, and utilization of tank strappings.

Liquid Pipeline Measurement and Quality Control (20 Hours)

ISBN 978-0-13-038264-1

(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.

SCADA (30 Hours)

ISBN 978-0-13-103147-0

(Module ID 64307-02) Explains pipeline operations systems, including control, communications, SCADA, and PLCs. Explains redundant systems and control system troubleshooting.

L2 PIPELINE OPERATIONS (CONTROL CENTER/GAS/LIQUID)

LEVEL 2

Curriculum Notes

- 110 Hours
- Revised: 2017, Third Edition
- Downloadable instructor resources that include module tests, PowerPoints®, and performance profile sheets are available at www.nccer.org/irc.
- Available as print on demand
- To purchase individual covered task modules, please visit www.nccer.org/pipeline-program

PAPERBACK

Trainee Guide: \$104.99
Individual Modules: \$24.99

ISBN

978-0-13-472539-0
see module list

MODULES

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

Abnormal Operating Conditions - Control Center (5 Hours)

ISBN 978-0-13-472782-0

(Module ID AOCC-17) 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.

Abnormal Operating Conditions - Field and Gas (5 Hours)

ISBN 978-0-13-472784-4

(Module ID AOFCG-17) 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.

Purge Gas from a Pipeline (5 Hours)

ISBN 978-0-13-472786-8

(Module ID CT50_0-17)

Purge Air from a Gas Pipeline (5 Hours)

ISBN 978-0-13-472789-9

(Module ID CT51_0-17)

Test Remotely Controlled Shutdown Devices (5 Hours)

ISBN 978-0-13-472790-5

(Module ID CT54_0-17)

Perform Incremental Pressure Increases to Update the MAOP (5 Hours)

ISBN 978-0-13-472791-2

(Module ID CT56_0-17)

Operate Odorant Equipment (5 Hours)

ISBN 978-0-13-472795-0

(Module ID CT57_0-17)

Monitor Odorant Level (5 Hours)

ISBN 978-0-13-472798-1

(Module ID CT58_0-17)

Start-up of a Liquid Pipeline (Field) (5 Hours)

ISBN 978-0-13-472800-1

(Module ID CT63_1-17)

Shutdown of a Liquid Pipeline (Field) (5 Hours)

ISBN 978-0-13-472801-8

(Module ID CT63_2-17)

Monitor Pressures, Flows, Communications, and Line Integrity and Maintain Them Within Allowable Limits on a Liquid Pipeline System (Field) (15 Hours)

ISBN 978-0-13-472803-2

(Module ID CT63_3-17)

Locally Operate Valves on a Liquid Pipeline System (5 Hours)

ISBN 978-0-13-472806-3

(Module ID CT63_4-17)

Start-up of a Liquid Pipeline (Control Center) (5 Hours)

ISBN 978-0-13-472809-4

(Module ID CT64_1-17)

Shutdown of a Liquid Pipeline (Control Center) (5 Hours)

ISBN 978-0-13-472811-7

(Module ID CT64_2-17)

Monitor Pressures, Flows, Communications, and Line Integrity and Maintain Them Within Allowable Limits on a Liquid Pipeline System (Control Center) (5 Hours)

ISBN 978-0-13-472814-8

(Module ID CT64_3-17)

Remotely Operate Valves on a Liquid Pipeline System (5 Hours)

ISBN 978-0-13-472816-2

(Module ID CT64_4-17)

Continued on following page



Pipeline Operations (Control Center/Gas/Liquid) (continued)

Start-up of a Gas Pipeline (5 Hours)

ISBN 978-0-13-472818-6

(Module ID CT65_1-17)

Shutdown of a Gas Pipeline (5 Hours)

ISBN 978-0-13-472821-6

(Module ID CT65_2-17)

Monitor Pressures, Flows, Communications and Line Integrity and Maintain Them Within Allowable Limits (Gas) (5 Hours)

ISBN 978-0-13-472823-0

(Module ID CT65_3-17)

Manually or Remotely Open or Close Valves or Other Equipment (5 Hours)

ISBN 978-0-13-472825-4

(Module ID CT65_4-17)