Maritime Pipefitting

L1 MARITIME PIPEFITTING



Curriculum Notes

LEVEL 1

- 185 hours (Includes 100 hours of Maritime Industry Fundamentals, which is a prerequisite for Level 1 completion and must be purchased separately. See above for ordering information.)
- Published: 2013
- Instructor's Guide includes access code to download TestGen software, module exams, PowerPoint[®] slides, and performance profile sheets from www.nccerirc.com.

PAPERBACK	ISBN
Trainee Guide: \$67	978-0-13-340475-3
Instructor's Guide: \$67	978-0-13-340476-0

MODULES

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

Orientation to the Maritime Pipefitting Trade (5 hours)

Trainee \$20 Instructor \$20 (Module ID 85101-13) Provides an overview of the maritime pipefitting trade and its career opportunities. Trade safety principles are introduced, as well as the responsibilities and characteristics of a good pipefitter.

Maritime Pipefitting Trade Math (15 hours)

Trainee \$20 ISBN 978-0-13-340591-0 Instructor \$20 ISBN 978-0-13-340607-8 (Module ID 85102-13) Explains how to solve a wide variety of maritime pipefitting math problems, including those related to common geometrical figures. The process of determining lengths in pipe offsets for general and rolling offsets is also presented.

Pipefitting Hand Tools (20 hours)

Trainee \$20	ISBN 978-0-13-340592-7
Instructor \$20	ISBN 978-0-13-340608-5
(Module ID 85103-13) Covers ho	and tool safety, as well as
procedures for selecting, inspecti	
pipefitting hand tools. Includes p	ipe wrenches, pipe stands,
pipe vises, levels, and pipe fabric	ation tools and aids.

Pipefitting Power Tools (15 hours)

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Trainee \$20	ISBN 978-0-13-340593-4
Instructor \$20	ISBN 978-0-13-340609-2

(Module ID 85104-13) Covers power tool safety and procedures for selecting, inspecting, using, and maintaining power tools that are common in the maritime environment. Procedures for threading pipe are provided in a step-by-step format. Guidelines for both electrical and pneumatic tools are provided.

Oxyfuel Cutting (17.5 hours)

 Trainee \$20
 ISBN 978-0-13-340594-1

 Instructor \$20
 ISBN 978-0-13-340610-8

 (Module ID 85105-13) Describes the procedures and safety requirements related to oxyfuel cutting. Detailed instructions for setting up, lighting, and using oxyfuel cutting torches is provided. Common techniques, such as straight line cutting, beveling, washing, and gouging are reviewed. Oxyfuel gas supply arrangements from both cylinders and manifolds are also presented.

Ladders and Scaffolds (12.5 hours)

 Trainee \$20
 ISBN 978-0-13-340595-8

 Instructor \$20
 ISBN 978-0-13-340611-5

 (Module ID 85106-13)
 Explains how to identify various types of ladder and scaffold systems and describes their safe use. The pre-use inspection requirements for both ladders and scaffolds are presented.

L2 MARITIME PIPEFITTING

Curriculum Notes

- 147.5 Hours
- Published: 2013
- Instructor's Guide includes access code to download TestGen software, module exams, PowerPoint[®] slides, and performance profile sheets from www.nccerirc.com.

LEVEL 2

ISBN

PAPERBACK

Frainee Guide: \$97	978-0-13-340478-4
nstructor's Guide: \$97	978-0-13-340479-1

MODULES

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

Piping Systems (5 hours)

Trainee \$20ISBN 978-0-13-340596-5Instructor \$20ISBN 978-0-13-340612-2(Module ID 85201-13) Identifies and explains basic typesof piping systems found in the maritime environment andthe materials used for various applications. Explains howthermal expansion in piping systems can be accommodated.Includes coverage of common insulation types and installationpractices.

Butt Weld Pipe Fabrication (37.5 hours)

Trainee \$20	ISBN 978-0-13-340598-9
Instructor \$20	ISBN 978-0-13-340614-6
(Module ID 85202-13) Descri	
maritime butt welded piping s	systems and how to determine
the lengths of pipe between points of connection. Explains	
how to prepare and fit both p	ipe and fittings, and how to select
backing rings when required.	

Socket Weld Pipe Fabrication (25 hours)

Trainee \$20	ISBN 978-0-13-340599-6
Instructor \$20	ISBN 978-0-13-340615-3
(Module ID 85203-13) Describes the pipe fittings used for	
maritime socket welded piping systems and how to determine	
the lengths of pipe between points of connection. Explains how	
to prepare and fit both pipe and fittings.	

Brazing (12.5 hours)

Trainee \$20	ISBN 978-0-13-340600-9
Instructor \$20	ISBN 978-0-13-340616-0
(Module ID 85204-13) Describes the procedures for preparing	
various types of pipe and tubing for brazing, as well as the	
brazing process. Discusses the selection of brazing filler metals	
for various applications.	

Threaded Pipe Fabrication (15 hours)

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ISBN 978-0-13-340601-6
ISBN 978-0-13-340617-7
he pipe fittings used for
and how to determine the
connection. Explains how
tings, and how to assemble

Fiberglass and Plastic Pipe (12.5 hours)

Trainee \$20	ISBN 978-0-13-340602-3
Instructor \$20	ISBN 978-0-13- 340618-4
(Module ID 85206-13) Introduces	s various types of fiberglass
and plastic pipe and their maritim	
fiberglass and plastic piping mate	rials are measured, cut, and
ioined.	

Identifying Valves, Flanges, and Gaskets (20 hours)

(20 110013)	
Trainee \$20	ISBN 978-0-13-340603-0
Instructor \$20	ISBN 978-0-13-340619-1
(Module ID 85207-13)	Describes and identifies various

types of valves, flanges, and gaskets used in the maritime environment. Factors related to valve selection as well as their storage, handling, and installation are presented. The various flange styles and related gasket materials are described, as well as their common installation procedures.

Drawings and Detail Sheets (20 hours)

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Trainee \$20	ISBN 978-0-13-340604-7
Instructor \$20	ISBN 978-0-13-340620-7
(Module ID 85208-13) Identif	ies the types and parts of
drawings commonly used by maritime pipefitters. Explains	
how to interpret the information	on contained in pipe drawings to
create the desired piping syste	m.

