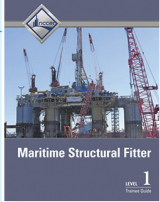


Maritime Structural Fitter

L1 MARITIME STRUCTURAL FITTER



LEVEL 1

Curriculum Notes

- 240 hours (Includes 100 hours of *Maritime Industry Fundamentals*, which is a prerequisite for Level 1 completion and must be purchased separately. See p. 74 for ordering information.)
- Published: 2014
- Downloadable instructor resources that include module tests, PowerPoints®, and performance profile sheets are available at www.nccer.org/irc.

PAPERBACK	ISBN
Trainee Guide: \$67	978-0-13-294864-7
Instructor's Guide: \$67	978-0-13-294927-9

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.

Welding Safety (2.5 Hours)

(Module ID 29101-09; from *Welding Level One, Fourth Edition*)

Trainee \$20	ISBN 978-0-13-610526-8
Instructor \$20	ISBN 978-0-13-610505-3

Oxyfuel Cutting (17.5 Hours)

(Module ID 29102-09; from *Welding Level One, Fourth Edition*)

Trainee \$20	ISBN 978-0-13-610528-2
Instructor \$20	ISBN 978-0-13-610506-0

Base Metal Preparation (12.5 Hours)

(Module ID 29105-09; from *Welding Level One, Fourth Edition*)

Trainee \$20	ISBN 978-0-13-610531-2
Instructor \$20	ISBN 978-0-13-610545-9

Weld Quality (10 Hours)

(Module ID 29106-09; from *Welding Level One, Fourth Edition*)

Trainee \$20	ISBN 978-0-13-610532-9
Instructor \$20	ISBN 978-0-13-610546-6

Shielded Metal Arc Welding – Electrodes

(2.5 Hours)

(Module ID 29108-09; from *Welding Level One, Fourth Edition*)

Trainee \$20	ISBN 978-0-13-610534-3
Instructor \$20	ISBN 978-0-13-610548-0

Tack Welding (40 Hours)

Trainee \$20	ISBN 978-0-13-377945-5
Instructor \$20	ISBN 978-0-13-377950-9

(Module ID 86101-14) Describes how to set up welding equipment, strike an arc, and make tack welds in order to maintain proper alignment of parts in anticipation of finish welding. Covers the machines, tools, and techniques used to make tack welds in various positions.

Fire Watch (5 Hours)

Trainee \$20	ISBN 978-0-13-377947-9
Instructor \$20	ISBN 978-0-13-377951-6

(Module ID 86102-14) Prepares a worker to perform fire watch duties in support of welding and flame cutting activities. Describes the classes of fires and the methods used to extinguish them, as well as the responsibilities of a person assigned as a fire watch.

Introduction to Structural Fitter Drawings

(10 Hours)

Trainee \$20 ISBN 978-0-13-377948-6
 Instructor \$20 ISBN 978-0-13-377953-0
 (Module ID 86103-14) Covers fundamental skills needed to read fabrication drawings that are commonly used by structural fitters. Focuses on basic drawing elements such as title blocks, revision blocks, and drawing lines and introduces plan, elevation, and detail drawings.

Fitting One (40 Hours)

Trainee \$20 ISBN 978-0-13-377949-3
 Instructor \$20 ISBN 978-0-13-377954-7
 (Module ID 86104-14) Introduces layout tools, fitting tools, and fitting aids used to fit up and align plate joints. Incorporates hands-on tasks through which the beginning fitter will learn how to perform basic layout, alignment, and fit-up tasks.

L2 MARITIME STRUCTURAL FITTER

LEVEL 2

Curriculum Notes

- 227.5 Hours
- Published: 2014
- Downloadable instructor resources that include module tests, PowerPoints®, and performance profile sheets are available at www.nccer.org/irc.

PAPERBACK	ISBN
Trainee Guide: \$97	978-0-13-383066-8
Instructor's Guide: \$97	978-0-13-383074-3

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.

Cutting and Burning Processes (40 Hours)

Trainee \$20 ISBN 978-0-13-378724-5
 Instructor \$20 ISBN 978-0-13-378730-6
 (Module ID 86201-14) Expands on flame cutting methods covered in Level 1, including laying out and cutting bevels, chamfers, and circles. Also covers the methods used to cut or split common structural components such as beams and bars.

Plasma Arc Cutting (7.5 Hours)

(Module ID 29103-09; from *Welding Level One, Fourth Edition*)

Trainee \$20	ISBN 978-0-13-610529-9
Instructor \$20	ISBN 978-0-13-610507-7

Intermediate Structural Print Reading (40 Hours)

Trainee \$20 ISBN 978-0-13-378725-2
 Instructor \$20 ISBN 978-0-13-378731-3
 (Module ID 86202-14) Covers interpretation of fabrication and installation drawings, sketching of isometric and orthographic drawings, and interpretation of welding symbols.

Fitting Two (140 Hours)

Trainee \$20 ISBN 978-0-13-378729-0
 Instructor \$20 ISBN 978-0-13-378735-1
 (Module ID 86203-14) Explains selection and application of gaskets and packings, fit-up tasks, and inspection of finished work. Also covers structural accessories, proper measuring techniques, and creating a materials list.

L3 MARITIME STRUCTURAL FITTER

LEVEL 3

Curriculum Notes

- 237.5 Hours
- Published: 2016
- Downloadable instructor resources that include module tests, PowerPoints®, and performance profile sheets are available at www.nccer.org/irc.

PAPERBACK	ISBN
Trainee Guide: \$97	978-0-13-457826-2
Instructor's Guide: \$97	978-0-13-457827-9

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.

Advanced Structural Print Reading (40 Hours)

Trainee \$20 ISBN 978-0-13-414487-0
 Instructor \$20 ISBN 978-0-13-414488-7
 (Module ID 86301-15) Focuses on learning to interpret ship construction drawings, ranging from the highest level general arrangement drawing to the lowest level piece-part drawing. Includes a set of drawings.

Fitting Three (80 Hours)

Trainee \$20 ISBN 978-0-13-414489-4
 Instructor \$20 ISBN 978-0-13-414490-0
 (Module ID 86302-15) Provides an overview of the ship construction process, from the lowest subassembly to the erection of the vessel itself. Illustrates laying out the locations of equipment and structural members, installing the equipment and structural members, and the use of leveling and alignment equipment.

GMAW and FCAW – Equipment and Filler Metals (10 Hours)

(Module ID 29205-09; from *Welding Level Two, Fourth Edition*)
 Trainee \$20 ISBN 978-0-13-214147-5
 Instructor \$20 ISBN 978-0-13-214121-5

GMAW and FCAW – Plate (80 Hours)

(Module ID 29206-09; from *Welding Level Two, Fourth Edition*)
 Trainee \$20 ISBN 978-0-13-214113-0
 Instructor \$20 ISBN 978-0-13-214157-4

Physical Characteristics and Mechanical Properties of Metals (7.5 Hours)

(Module ID 29203-09; from *Welding Level Two, Fourth Edition*)
 Trainee \$20 ISBN 978-0-13-214145-1
 Instructor \$20 ISBN 978-0-13-214119-2

Fundamentals of Crew Leadership (20 Hours)

Trainee \$43 ISBN 978-0-13-414493-1
 Instructor \$43 ISBN 978-0-13-414492-4
 (Module ID 46101-11, Second Edition) Covers basic leadership skills and explains different leadership styles, communication, delegating, and problem solving. Jobsite safety and the crew leader's role in safety are discussed, as well as project planning, scheduling, and estimating. Includes performance tasks to assist the learning process.