

L4 CARPENTRY ADVANCED

LEVEL 4

Curriculum Notes

- 182.5 Hours (162.5 Required, 20 Elective)
- Revised 2014, Fifth Edition
- Downloadable instructor resources that include module tests, PowerPoints®, and performance profile sheets are available at www.nccer.org/irc.

PAPERBACK

ISBN

Trainee Guide: \$99.99

978-0-13-382314-1

DIGITAL

NCCERconnect Access Card: \$99.99

978-0-13-442810-9

NCCERconnect +

Trainee Guide: \$124.99

978-0-13-453969-0

MODULES

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

Site Layout One: Differential Leveling (20 Hours)

ISBN 978-0-13-378698-9

(Module ID 27401-14) Covers the principles, equipment, and methods used to perform differential leveling. Also covers the layout responsibilities of surveyors, field engineers, and carpenters; interpretation and use of site/plot plan drawings; use of laser instruments; and methods used for on-site communication.

Site Layout Two: Angular and Distance Measurement (37.5 Hours)

ISBN 978-0-13-378700-9

(Module ID 27402-14) Covers the principles, equipment, and methods used to perform site layout tasks that require angular and distance measurements. Tasks include laying out building lines and determining elevations by trigonometric leveling. Covers the use of transits, theodolites, electronic distance measurement, and total stations. Reviews trade mathematics needed to perform calculations related to angular measurements.

Advanced Roof Systems (20 Hours)

ISBN 978-0-13-378702-3

(Module ID 27403-14) Covers commercial roofing materials and structures and describes the procedures for installing commercial roofing such as lap seam, standing seam, and built-up roofs.

Advanced Wall Systems (25 Hours)

ISBN 978-0-13-378704-7

(Module ID 27404-14) Covers installation of a variety of finishing materials, including concrete masonry units and brick. Also covers installation of curtain walls and fire-rated commercial construction.

Advanced Stair Systems (25 Hours)

ISBN 978-0-13-378705-4

(Module ID 27405-14) Provides extensive coverage of the materials and techniques used in finishing wooden staircases. Also covers a variety of stair systems used in commercial construction.

Introduction to Construction Equipment (7.5 Hours)

ISBN 978-0-13-378706-1

(Module ID 27406-14) Introduces construction equipment, including the aerial lift, skid steer loader, electric power generator, compressor, compactor, and forklift. An overview of general safety, operation, and maintenance procedures is provided.

Introduction to Oxyfuel Cutting and Arc Welding (20 Elective Hours)

ISBN 978-0-13-378707-8

(Module 27407-14) Introduces the equipment, procedures, and safety practices used in cutting steel with oxyfuel equipment, as well as shielded metal arc welding, gas-tungsten arc welding, and gas metal arc welding. Labs include practice in cutting and welding techniques.

Site Preparation (7.5 Hours)

ISBN 978-0-13-378697-2

(Module ID 27409-14) Covers the planning process that precedes the start of work on a construction site, including environmental considerations, personnel issues, access roads, traffic control, permits, site safety, utilities, and crane-related concerns.

Fundamentals of Crew Leadership (20 Hours)

ISBN 978-0-13-378708-5

(Module 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.

Cabinetmaking



35 Hours
Revised: 2015, Third Edition
Module ID 27501-15

PAPERBACK

ISBN

Trainee Guide: \$24.99

978-0-13-428854-3

DIGITAL

NCCERconnect Access Card: \$99.99

9780135215562

This module expands on the knowledge and skills gained through the Carpentry Curriculum and provides the basic information needed to construct and apply finishes to custom cabinetry. It identifies and discusses various types of wood products, wood-joining techniques, power tools, cabinet doors, shelves, and hardware. Specific guidance is also provided for the installation of laminated countertops.