



RELATED INSTRUCTION OUTLINE OF THE
CARPENTRY CURRICULUM
ISBN-13: 978-0-13-382305-9
(5th Edition)

CARPENTRY LEVEL 3			
Module #	Module Name	Module Objectives	Perf. Profile
1	27303-14 <i>Properties of Concrete</i>	Describes the properties, characteristics, and uses of cement, aggregates, and other materials used in different types of concrete. Covers procedures for estimating concrete volume and for testing freshly mixed concrete, as well as methods and materials for curing concrete.	Yes
2	38101-11 <i>Rigging Equipment</i>	Describes the function and inspection of basic equipment and hardware used in rigging, including slings, wire rope, and chains, and attaching hardware such as shackles, eyebolts, and hooks, as well as rigging knots. Sling angles are explained. Covers the use of tuggers, jacks, hoists, and ratchet-lever hoists.	Yes
3	38102-11 <i>Rigging Practices</i>	Describes basic rigging and crane hazards as well as safety practices related to general rigging activities, working around power lines, and emergency response. Covers procedures for using slings and rigging pipes and valves.	Yes
4	27306-14 <i>Trenching and Excavating</i>	Introduces trainees to the techniques required for working in and around excavations, particularly when preparing building foundations. Describes types and bearing capacities of soil; procedures used in shoring, shielding, and sloping trenches and excavations; trenching safety requirements, including recognition of unsafe conditions; and mitigation of groundwater and rock when excavating foundations.	Yes
5	27304-14 <i>Reinforcing Concrete</i>	Explains the selection and uses of different types of reinforcing materials. Discusses requirements for cutting, bending, splicing and tying reinforcing steel and the placement of steel in footings and foundations, walls, columns, and beams and girders.	Yes
6	27307-14 <i>Foundations and Slabs-on-Grade</i>	Describes basic site layout safety, tools and methods; layout and construction of deep and shallow foundations; layout and formation of slabs-on-grade; and forms used for curbing and paving.	Yes
7	27308-14 <i>Vertical Formwork</i>	Covers the applications and construction methods for types of forming and form hardware systems for walls, columns, and stairs, as well as slip forms, climbing forms, and shaft forms. Provides an overview of the assembly, erection, and stripping of gang forms.	Yes
8	27309-14 <i>Horizontal Formwork</i>	Describes elevated decks and formwork systems and methods used in their construction. Covers joist, pan, beam and slab, flat slab, composite slab, and specialty forms systems and provides instructions for the use of flying decks, as well as shoring and reshoring systems.	Yes
9	27305-14 <i>Handling and Placing Concrete</i>	Describes tools, equipment and procedures for handling, placing and finishing concrete. Describes joints made in concrete structures and the use of joint sealants.	Yes
10	27310-14 <i>Tilt-Up Wall Systems</i>	Describes how tilt-up concrete construction is used and how tilt-up panels are formed, erected, and braced. Reviews the installation of rebar and types of embedments used to lift and brace the panels. Also covers the methods used to achieve architectural and decorative finishes.	Yes