

NORTHWEST INDIAN COLLEGE



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NACTEP NCCER Module Lesson Plans

Course	Modules	Lesson Plan URL
Electrical: Level 1	Orientation to Electrical Trade Electrical Safety Intro to Electrical Circuits Electrical Theory Intro to National Electrical Code® Device Boxes Hand Bending Raceways and Fittings Conductors and Cables Basic Electrical Construction Drawings Residential Electrical Services Electrical Test Equipment	http://www.nccer.org/uploads/fileLibrary/Electrical_L1_CEP.pdf http://www.nccer.org/uploads/fileLibrary/Carpentry_L1_2013_CEP.pdf
Electrical: Level 2	Alternating Current Motors: Theory and Application Electric Lighting Conduit Bending Pull and Junction Boxes Conductor Installations Cable Tray Conductor Terminations and Splices Grounding and Bonding Circuit Breakers and Fuses Control Systems & Fundamental Concepts	http://www.nccer.org/uploads/fileLibrary/Electrical_L2_CEP.pdf

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Course	Modules	Lesson Plan URL
Electrical: level 3	Conductor Selection and Calculations Practical Applications of Lighting Hazardous Locations Overcurrent Protection Distribution Equipment Transformers Commercial Electrical Services Motor Calculations Voice, Data, and Video Motor Controls	http://www.nccer.org/uploads/fileLibrary/Electrical_L3_CEP.pdf
Electrical: Level 4	Load Calculations- Feeders & Services Health Care Facilities Standby and Emergency Systems Basic Electronic Theory Fire Alarm Systems Specialty Transformers Advanced Controls HVAC Controls Heat Tracing & Freeze Protection Motor Operation and Maintenance Medium-Voltage Terminations/Splices Special Locations Fundamentals of Crew Leadership	http://www.nccer.org/uploads/fileLibrary/Electrical_L4_CEP.pdf

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CORE	Basic Safety (Construction Site Safety) Introduction to Construction Math Introduction to Hand Tools Introduction to Power Tools Introduction to Construction Drawing Basic Communication Skills Basic Employability Skills Introduction to Material Handling	4 th Edition: http://www.nccer.org/uploads/fileLibrary/Core_2009_courseplanning816201351231PM63.pdf 5 th Edition: http://www.nccer.org/uploads/fileLibrary/core_5e_courseplanning.pdf
Cabinet Making		3rd Edition: http://www.nccer.org/uploads/fileLibrary/cabinetmaking_3e_courseplanningtools.pdf 2 nd Edition: http://www.nccer.org/uploads/fileLibrary/Cabinetmaking_CEPS.pdf
Carpentry: Level 1	Orientation to the Trade Building Materials, Fasteners, and Adhesives Hand and Power Tools Intro to Construction Drawings, Specifications, & Layouts Floor Systems Wall Systems Ceiling Joist and Roof Framing Basic Stair Layout Introductions to Building Envelope Systems	4 th Edition: http://www.nccer.org/uploads/fileLibrary/Carpentry_L1_2_006_courseplanning.pdf 5 th Edition: http://www.nccer.org/uploads/fileLibrary/Carpentry_L1_2_013_CEP.pdf
Carpentry: Level 2	Commercial Drawings Roofing Applications Thermal and Moisture Protection Exterior Finishing Cold-Formed Steel Framing Drywall Installation Drywall Finishing Doors and Door Hardware Suspended Ceiling Window, Door, Floor, and Ceiling Trim Cabinet Installation	4 th Edition: http://www.nccer.org/uploads/fileLibrary/Carpentry_L2_2_007_courseplanning.pdf 5 th Edition: http://www.nccer.org/uploads/fileLibrary/Carpentry_L2_CEPs.pdf

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Carpentry: Level 3	Properties of Concrete Rigging Equipment Rigging Practices Trenching and Excavating Reinforcing Concrete Foundations and Slab-on-Grade Vertical Formwork Horizontal Formwork Handling and Placing Concrete Tilt-up Wall Panels	4 th Edition: http://www.nccer.org/uploads/fileLibrary/Carpentry_L3_2007_courseplanning.pdf 5 th Edition: http://www.nccer.org/uploads/fileLibrary/Carpentry_L3_CEPs.pdf
Carpentry: Level 4	Site Layout One – Differential Leveling Site Layout Two – Angular and Distance Advanced Roofing Systems Advanced Wall Systems Advanced Stair Systems Introduction to Construction Equipment Introduction to Oxyfuel Cutting and Arc Welding Site Preparation Fundamentals of Crew Leadership	4 th Edition: http://www.nccer.org/uploads/fileLibrary/Carpentry_L4_2008_courseplanning.pdf 5 th Edition: http://www.nccer.org/uploads/fileLibrary/carpentry_L4_5e_courseplanning.pdf
Plumbing: level I	Introduction to the Plumbing Profession Plumbing Safety Tools of the Plumbing Trade Introduction to Plumbing Math Introduction to Plumbing Drawing Plastic Pipe and Fittings Copper Pipe and Fittings Cast-Iron Pipe and Fittings Carbons Steel Pipe and Fittings Introduction to Plumbing Fixtures Introduction to Drain, Waste, and Vent (DWV) Systems Introduction to Water Distribution Systems	http://www.nccer.org/uploads/fileLibrary/Plumbing_L1_2012_courseplanning.pdf

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Course	Modules	Lesson Plan URL
Plumbing: Level 2	Plumbing Math Two Reading Commercial Drawings Structural Penetrations, Insulation, and Fire-Stopping Installing and Testing DWV Piping Installing Roof, Floor, and Area Drains Installing and Testing Water Supply Piping Types of Valves Installing Fixtures and Valves Installing Water Heaters Basic Electricity Fuel Gas and Fuel Oil Systems	http://www.nccer.org/uploads/fileLibrary/Plumbing_L2_CEPs.pdf
Plumbing: Level 3	Applied Math Sizing and Protecting the Water Supply System Potable Water Supply Treatment Types of Venting Sizing DWV and Storm Systems Sewage Pumps and Sump Pumps Corrosive-Resistant Waste Piping Compressed Air Service Plumbing	http://www.nccer.org/uploads/fileLibrary/Plumbing_L3_2014_CEPs.pdf
Plumbing: Level 4	Business Principals for Plumbing Fundamentals of Crew Leadership Water Pressure Booster and Recirculation Indirect and Special Waste Hydronic and Solar Heating Systems Codes Private Water Supply Well Systems Private Waste-Disposal Systems Swimming Pools and Hot Tubs Plumbing for Mobile Homes and Travel Trailer Park Introduction to Medical Gas and Vacuum	http://www.nccer.org/uploads/fileLibrary/plumbing_L4_4e_courseplanning.pdf