



## Related NCCER Craft Areas & Modules by Course

In the following courses in the Architecture & Construction cluster, the identified craft areas and modules from the NCCER curriculum correlate with course content. For information on establishing an NCCER Accredited Training and Education Facility (ATEF), please visit [www.nccer.org](http://www.nccer.org).

### Structural Systems Program of Study

	Level 1	Level 2	Level 3	Level 4
<b>Course</b>	Fundamentals of Construction	Structural Systems I	Structural Systems II	Construction Practicum
<b>Correlated Craft Area in NCCER Curriculum</b>	Core Curriculum	Carpentry Level One	Carpentry Level Two	
<b>Correlated Modules in NCCER Curriculum</b>	<u>Core Curriculum</u> 00101-09 Basic Safety 00109-09 Introduction to Materials Handling 00102-09 Introduction to Construction Math 00103-09 Introduction to Hand Tools 00104-09 Introduction to Power Tools 00105-09 Introduction to Construction Drawings	<u>Carpentry Level One</u> 27101-13 Orientation to the Trade 27102-13 Building Materials, Fasteners, and Adhesives 27103-13 Hand and Power Tools 27104-13 Introduction to Construction Drawings, Specifications, and Layout 27105-13 Floor Systems 27111-13 Wall Systems 27112-13 Ceiling Joist and Roof Framing 27109-13 Introduction to Building Envelope Systems 27110-13 Basic Stair Layout	<u>Carpentry Level Two</u> 27201-13 Commercial Drawings 27205-13 Cold-Formed Steel Framing 27204-13 Exterior Finishing 27203-13 Thermal and Moisture Protection 27202-13 Roofing Applications 27208-13 Doors and Door Hardware 27206-13 Drywall Installation 27207-13 Drywall Finishing 27210-13 Window, Door, Floor, and Ceiling Trim 27211-13 Cabinet Installation	
<b>Optional Correlated Modules to use as Supplements</b>	<u>Project Management</u> 44101-08 Introduction to Project Management 44105-08 Construction	<u>Project Management</u> 44105-08 Construction Documents	<u>Project Management</u> 44105-08 Construction Documents <u>Other</u>	

	Documents <u>Carpentry Level One</u> 27102-13 Building Materials, Fasteners, and Adhesives		70101-09 Your Role in the Green Environment	
<b>Additional modules in primary craft area not directly correlated to specific course standards</b>	<u>Core Curriculum</u> 00106-09 Basic Rigging (optional) 00107-09 Basic Communication Skills 00108-09 Basic Employability Skills		<u>Carpentry Level Two</u> 27209-13 Suspended Ceilings (optional)	

## Residential & Commercial Construction Program of Study

	Level 1	Level 2	Level 3	Level 4
<b>Course</b>	Fundamentals of Construction	Residential & Commercial Construction I	Residential & Commercial Construction II	Construction Practicum
<b>Correlated Craft Area in NCCER Curriculum</b>	Core Curriculum	Construction Technology	Construction Technology	
<b>Correlated Modules in NCCER Curriculum</b>	<u>Core Curriculum</u> 00101-09 Basic Safety 00109-09 Introduction to Materials Handling 00102-09 Introduction to Construction Math 00103-09 Introduction to Hand Tools 00104-09 Introduction to Power Tools 00105-09 Introduction to Construction Drawings	<u>Construction Technology</u> 68101-09 Site Layout One: Distance Measurement and Leveling 68102-09 Introduction to Concrete, Reinforcing Materials, and Forms 68106-09 Floor Systems 68107-09 Wall and Ceiling Framing 68112-09 Electrical Safety	<u>Construction Technology</u> 68108-09 Roof Framing 68109-09 Roofing Applications 68110-09 Exterior Finishing 68110-09 Exterior Finishing 68111-09 Basic Stair Layout 68104-09 Introduction to Masonry 68115-09 Introduction to Drain, Waste, and Vent (DWV) Systems 68116-09 Plastic Pipe and Fittings 68117-09 Copper Pipe and Fittings 68113-09 Residential Electrical Services 68114-09 Introduction to HVAC	

<b>Optional Correlated Modules to use as Supplements</b>	<u>Project Management</u> 44101-08 Introduction to Project Management 44105-08 Construction Documents	<u>Construction Technology:</u> 68103-09 Handling and Placing Concrete  <u>Electrical Level One:</u> 26103-14 Introduction to Electrical Circuits  <u>Project Management</u> 44105-08 Construction Documents  <u>Core Curriculum:</u> 00108-09 Basic Employability Skills	<u>Electrical Level One:</u> 26106-14 Device Boxes 26112-14 Electrical Test Equipment  <u>Project Management:</u> 44105-08 Construction Documents	
<b>Additional modules in primary craft area not directly correlated to a specific course standards</b>	<u>Core Curriculum</u> 00106-09 Basic Rigging (optional) 00107-09 Basic Communication Skills 00108-09 Basic Employability Skills	<u>Construction Technology</u> 68103-09 Handling and Placing Concrete	<u>Construction Technology</u> 68105-09 Masonry Units and Installation Techniques	

## Mechanical, Electrical, & Plumbing (MEP) Systems Program of Study

	Level 1	Level 2	Level 3	Level 4
<b>Course</b>	Fundamentals of Construction	MEP Systems	Electrical Systems -and/or- HVAC -and/or- Plumbing Systems	Construction Practicum
<b>Correlated Craft Area in NCCER Curriculum</b>	Core Curriculum	<u>Selected Modules from Each of the Following:</u> <ul style="list-style-type: none"> <li>• Electrical Level One</li> <li>• HVAC Level One</li> <li>• Plumbing Level One</li> </ul>	<u>Electrical Systems</u> <ul style="list-style-type: none"> <li>• Electrical Level One</li> </ul> <u>HVAC</u> <ul style="list-style-type: none"> <li>• HVAC Level One</li> </ul> <u>Plumbing Systems</u> <ul style="list-style-type: none"> <li>• Plumbing Level One</li> </ul>	
<b>Correlated Modules in NCCER Curriculum</b>	<u>Core Curriculum</u> 00101-09 Basic Safety 00109-09 Introduction to Materials Handling 00102-09 Introduction to Construction Math	<u>Electrical Level One</u> 26101-14 Orientation to the Electrical Trade 26102-14 Electrical Safety 26103-14 Introduction to Electrical Circuits	See charts below.	

	00103-09 Introduction to Hand Tools 00104-09 Introduction to Power Tools 00105-09 Introduction to Construction Drawings	26104-14 Electrical Theory 26109-14 Conductors and Cables  <u>HVAC Level One</u> 03101-13 Introduction to HVAC 03102-13 Trade Math 03108-13 Introduction to Heating  <u>Plumbing Level One</u> 02101-12 Introduction to the Plumbing Profession 02102-12 Plumbing Safety 02103-12 Tools of the Plumbing Trade 02104-12 Introduction to Plumbing Math 02111-12 Introduction to Drain, Waste, and Vent (DWV) Systems 02106-12 Plastic Pipe and Fittings		
<b>Optional Correlated Modules to use as Supplements</b>	<u>Project Management</u> 44101-08 Introduction to Project Management 44105-08 Construction Documents	<u>Project Management</u> 44105-08 Construction Documents  <u>Core Curriculum:</u> 00108-09 Basic Employability Skills		
<b>Additional modules in primary craft area not directly correlated to a specific course standards</b>	<u>Core Curriculum</u> 00106-09 Basic Rigging (optional) 00107-09 Basic Communication Skills 00108-09 Basic Employability Skills	<i>Several in Electrical Level One, HVAC Level One, and Plumbing Level One. See Level 3 courses for remaining modules.</i>		

**MEP Systems Level 3 Courses**

	<b>Electrical Systems</b>	<b>HVAC</b>	<b>Plumbing Systems</b>
<b>Correlated Craft Area in NCCER Curriculum</b>	Electrical Level One	HVAC Level One	Plumbing Level One

<b>Correlated Modules in NCCER Curriculum</b>	<u>Electrical Level One</u> 26102-14 Electrical Safety 26112-14 Electrical Test Equipment 26105-14 Introduction to the National Electrical Code 26106-14 Device Boxes 26107-14 Hand Bending 26108-14 Raceways and Fittings 26109-14 Conductors and Cables 26110-14 Basic Electrical Construction Drawings 26111-14 Residential Electrical Services	<u>HVAC Level One</u> 03106-13 Basic Electricity 03108-13 Introduction to Heating 03107-13 Introduction to Cooling 03109-13 Air Distribution Systems 03103-13 Basic Copper and Plastic Piping Practices 03104-13 Soldering and Brazing 03105-13 Basic Carbon Steel Piping Practices	<u>Plumbing Level One</u> 02102-12 Plumbing Safety 02103-12 Tools of the Plumbing Trade 02105-12 Introduction to Plumbing Drawings 02104-12 Introduction to Plumbing Math 02106-12 Plastic Pipe and Fittings 02107-12 Copper Tube and Fittings 02108-12 Cast-Iron Pipe and Fittings 02109-12 Carbon Steel Pipe and Fittings 02110-12 Introduction to Plumbing Fixtures 02111-12 Introduction to Drain, Waste, and Vent (DWV) Systems 02112-12 Introduction to Water Distribution Systems
<b>Optional Correlated Modules to use as Supplements</b>	<u>Project Management</u> 44105-08 Construction Documents <u>Power Generation</u> <u>Maintenance Electrician</u> 49101-10 Introduction to the Power Industry	<u>Project Management</u> 44105-08 Construction Documents  <u>HVAC Level Two</u> 03301-13 Refrigerants and Oils 03205-13 Leak Detection, Evacuation, Recovery, and Charging 03215-13 Basic Maintenance	<u>Project Management</u> 44105-08 Construction Documents
<b>Additional modules in primary craft area not directly correlated to a specific course standards</b>			