

# Standards Correlations

## Electricity II (8534)

Task	SOL Correlations	NCCER Correlations
<b>Demonstrating Personal Qualities and Abilities</b>		
Demonstrate creativity and innovation.	<p>English: 6.1, 6.3, 6.4, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8</p> <p>History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1</p> <p>Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 8.2, 8.4, 8.6, 8.7, 8.11, 8.12, 8.17, 8.18, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, AII.9, COM.1, COM.3, COM.4, COM.5, COM.8, DM.7, DM.1*, DM.10, DM.2*, DM.3*, PS.3*, PS.4*, PS.7*, PS.9*, PS.10*</p> <p>Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1</p>	
Demonstrate critical thinking and problem solving.	<p>English: 6.1, 6.3, 6.4, 6.5, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.5, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8</p> <p>History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1</p> <p>Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.10, 6.11, 7.2, 7.3, 7.8, 7.12, 7.13, 8.2, 8.4, 8.8, 8.9, 8.10, 8.11, A.8,</p>	

Task	SOL Correlations	NCCER Correlations
	A.9, G.1, G.13, G.14, AFDA.3, AFDA.5, AFDA.8, AII.9, AII.10, AII.11, COM.1, COM.3, COM.4, COM.5, COM.8, DM.4, DM.7, DM.1*, DM.2*, DM.3*, DM.9*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1	
Demonstrate initiative and self-direction.	English: 6.1, 6.4, 6.6, 6.7, 6.9, 7.1, 7.4, 7.6, 7.7, 7.9, 8.1, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate integrity.	English: 6.1, 7.1, 8.1, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate work ethic.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1	
<b>Demonstrating Interpersonal Skills</b>		
Demonstrate conflict-resolution skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.4, 8.6, 8.7, 8.9, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, VUS.1	
Demonstrate listening and speaking skills.	English: 6.1, 6.2, 6.4, 6.6, 7.1, 7.2, 7.4, 7.6, 8.1, 8.2, 8.4, 8.6, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	

Task	SOL Correlations	NCCER Correlations
Demonstrate respect for diversity.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, USII.9, VUS.1, VUS.13, WG.1, WHI.1, WHII.1	
Demonstrate customer service skills.	English: 6.1, 6.4, 6.7, 7.1, 7.4, 7.7, 8.1, 8.4, 8.7, 9.1, 9.5, 9.6, 10.1, 10.5, 10.6, 11.1, 11.5, 11.6, 12.1, 12.5, 12.6 History and Social Science: CE.1, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Collaborate with team members	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
<b>Demonstrating Professional Competencies</b>		
Demonstrate big-picture thinking.	English: 6.1, 6.4, 7.1, 7.4, 8.1, 8.4, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.4, CE.12, GOVT.1, GOVT.15, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate career- and life-management skills.	English: 6.1, 6.7, 7.1, 7.7, 8.1, 8.7, 9.1, 9.6, 10.1, 10.6, 11.1, 11.6, 12.1, 12.6 History and Social Science: CE.1, CE.4, CE.12, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 8.4	
Demonstrate continuous learning and adaptability.	English: 6.1, 6.4, 6.7, 6.9, 7.1, 7.4, 7.7, 7.9, 8.1, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.3, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	

Task	SOL Correlations	NCCER Correlations
	Science: BIO.1, CH.1, LS.1, PH.1, PH.4, PS.1	
Manage time and resources.	English: 6.1, 6.2, 6.4, 6.7, 6.9, 7.1, 7.2, 7.4, 7.7, 7.9, 8.1, 8.2, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 7.10, 7.11, 7.12, 7.13, 8.4, 8.11, 8.12, 8.13, 8.14, 8.17, 8.18, A.4, A.5, A.8, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, COM.1, COM.3, COM.5, COM.8	
Demonstrate information-literacy skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.9, 9.2, 9.5, 9.6, 9.8, 10.2, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.8, 7.9, 8.11, 8.12, A.8, A.9, AFDA.3, AFDA.4, AFDA.6, AFDA.7, AFDA.8, DM.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.7*, PS.8*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1	
Demonstrate an understanding of information security.	English: 6.1, 6.2, 6.3, 6.4, 6.6, 6.7, 6.8, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.8, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.8, 8.9, 9.1, 9.2, 9.5, 9.6, 9.8, 10.1, 10.2, 10.5, 10.6, 10.8, 11.1, 11.2, 11.5, 11.6, 11.8, 12.1, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: COM.10	

Task	SOL Correlations	NCCER Correlations
Maintain working knowledge of current information-technology (IT) systems.	English: 6.1, 6.3, 6.4, 6.6, 6.9, 7.1, 7.3, 7.4, 7.6, 7.9, 8.1, 8.3, 8.4, 8.6, 8.9 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 7.8, COM.1, COM.2, COM.7, COM.9, COM.10, COM.11, COM.16, COM.18, PS.17 Science: BIO.1, CH.1, ES.1, PH.1	
Demonstrate proficiency with technologies, tools, and machines common to a specific occupation.	History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.9, 8.4, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AII.4, AII.7, AII.9, COM.1, COM.7, COM.10, COM.11, COM.12, COM.16 Science: CH.1, ES.1, LS.1, PH.1, PS.1	
Apply mathematical skills to job-specific tasks.	English: 6.4, 6.6, 6.7, 7.4, 7.6, 7.7, 8.4, 8.6, 8.7, 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.5, 6.6, 6.12, 6.13, 6.14, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.8, 7.9, 7.11, 7.12, 7.13, 8.4, 8.5, 8.6, 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16, 8.17, 8.18, A.1, A.3, A.4, A.5, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AFDA.8, AII.3, AII.7, AII.9, AII.10, COM.1, COM.7 Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1	
Demonstrate professionalism.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	

<b>Task</b>	<b>SOL Correlations</b>	<b>NCCER Correlations</b>
Demonstrate reading and writing skills.	English: 6.1, 6.6, 6.7, 7.1, 7.6, 7.7, 8.1, 8.6, 8.7, 9.1, 9.5, 9.6, 9.7, 10.1, 10.5, 10.6, 10.7, 11.1, 11.5, 11.6, 11.7, 12.1, 12.5, 12.6, 12.7 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: 6.1, PH.1, PS.1	
Demonstrate workplace safety.	English: 6.4, 7.4, 8.4, 9.5, 10.5, 11.5, 12.5 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1	
<b>Examining All Aspects of an Industry</b>		
Examine aspects of planning within an industry/organization.	History and Social Science: GOVT.16	
Examine aspects of management within an industry/organization.		
Examine aspects of financial responsibility within an industry/organization.		
Examine technical and production skills required of workers within an industry/organization.		
Examine principles of technology that underlie an industry/organization.		
Examine labor issues related to an industry/organization.	History and Social Science: GOVT.16	

<b>Task</b>	<b>SOL Correlations</b>	<b>NCCER Correlations</b>
Examine community issues related to an industry/organization.	History and Social Science: GOVT.16	
Examine health, safety, and environmental issues related to an industry/organization.	History and Social Science: GOVT.16	
<b>Addressing Elements of Student Life</b>		
Identify the purposes and goals of the student organization.		
Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.		
Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.		
Identify Internet safety issues and procedures for complying with acceptable use standards.		
<b>Exploring Work-Based Learning</b>		
Identify the types of work-based learning (WBL) opportunities.		
Reflect on lessons learned during the WBL experience.		

Task	SOL Correlations	NCCER Correlations
Explore career opportunities related to the WBL experience.		
Participate in a WBL experience, when appropriate.		
<b>Applying Basic Construction Safety Standards (Core Safety)</b>		
Comply with federal, state, and local safety legal requirements.	<p>English: 11.5, 12.5</p> <p>History and Social Sciences:</p> <p>Govt 7, 8, 9</p> <p>Science: CH.1</p>	<p>NCCER Core Curriculum: Introduction to Basic Construction, 2021</p> <ul style="list-style-type: none"> <li>• 00101 Basic Safety</li> <li>• 00106 Introduction to Basic Rigging</li> </ul>
Maintain a safe working environment.	<p>English: 11.5, 12.5</p> <p>History and Social Sciences:</p> <p>WHII 8, VUS 8</p> <p>Science: PH.1</p>	<p>NCCER Core Curriculum: Introduction to Basic Construction, 2021</p> <ul style="list-style-type: none"> <li>• 00101 Basic Safety</li> </ul> <p>NCCER Electrical Level 1, 2020</p> <ul style="list-style-type: none"> <li>• 26102-20 Safety for Electricians</li> </ul>
Explain safe working practices around electrical hazards.	<p>English: 11.5, 12.5</p> <p>History and Social Sciences:</p> <p>VUS 8</p> <p>Science: PH.1</p>	<p>NCCER Core Curriculum: Introduction to Basic Construction, 2021</p> <ul style="list-style-type: none"> <li>• 00101 Basic Safety</li> </ul>



<b>Task</b>	<b>SOL Correlations</b>	<b>NCCER Correlations</b>
Identify emergency first aid procedures.	English: 11.5, 12.5	NCCER Core Curriculum: Introduction to Basic Construction, 2021  <ul style="list-style-type: none"> <li>• 00101 Basic Safety</li> </ul>
Identify the types of fires and the methods used to extinguish them.	English: 11.5, 12.5  Science: CH.1	NCCER Core Curriculum: Introduction to Basic Construction, 2021  <ul style="list-style-type: none"> <li>• 0010 Basic Safety</li> </ul>
Identify personal protective equipment (PPE) requirements.	English: 11.5, 12.5	NCCER Core Curriculum: Introduction to Basic Construction, 2021  <ul style="list-style-type: none"> <li>• 00101 Basic Safety</li> </ul> NCCER Electrical Level 1, 2020  <ul style="list-style-type: none"> <li>• 26102-20 Safety for Electricians</li> </ul>
Inspect course-specific hand and power tools to visually identify defects.	English: 11.5, 12.5	NCCER Core Curriculum: Introduction to Basic Construction, 2021  <ul style="list-style-type: none"> <li>• 00101 Basic Safety</li> <li>• 00103 Introduction to Hand Tools</li> </ul>

Task	SOL Correlations	NCCER Correlations
		<ul style="list-style-type: none"> <li>00104 Introduction to Power Tools</li> </ul>
Demonstrate lifting and carrying techniques.		<p>NCCER Core Curriculum: Introduction to Basic Construction, 2021</p> <ul style="list-style-type: none"> <li>00101 Basic Safety</li> </ul> <p>NCCER Electrical Level 1, 2020</p> <ul style="list-style-type: none"> <li>26102-20 Safety for Electricians</li> </ul>
Demonstrate laddering techniques.		<p>NCCER Core Curriculum: Introduction to Basic Construction, 2021</p> <ul style="list-style-type: none"> <li>00101 Basic Safety</li> </ul> <p>NCCER Electrical Level 1, 2020</p> <ul style="list-style-type: none"> <li>26102-20 Safety for Electricians</li> </ul>
Demonstrate scaffolding techniques.		<p>NCCER Core Curriculum: Introduction to Basic Construction, 2021</p>

Task	SOL Correlations	NCCER Correlations
		<ul style="list-style-type: none"> <li>• 00101 Basic Safety</li> </ul> <p>NCCER Electrical Level 1, 2020</p> <ul style="list-style-type: none"> <li>• 26102-20 Safety for Electricians</li> </ul>
Demonstrate lockout/tagout procedures.	English: 11.5, 12.5	<p>NCCER Core Curriculum: Introduction to Basic Construction, 2021</p> <ul style="list-style-type: none"> <li>• 00101 Basic Safety</li> </ul> <p>NCCER Electrical Level 1, 2020</p> <ul style="list-style-type: none"> <li>• 26102-20 Safety for Electricians</li> </ul>
Report injuries.	English: 11.5, 11.6, 11.7, 12.5, 12.6, 12.7	<p>NCCER Core Curriculum: Introduction to Basic Construction, 2021</p> <ul style="list-style-type: none"> <li>• 00101 Basic Safety</li> </ul>
Report personal, environmental, and equipment safety violations to the appropriate authority.	English: 11.1, 11.6, 11.7, 12.1, 12.6, 12.7	<p>NCCER Core Curriculum: Introduction to Basic Construction, 2021</p> <ul style="list-style-type: none"> <li>• 00101 Basic Safety</li> </ul>

Task	SOL Correlations	NCCER Correlations
		<p>NCCER Electrical Level 1, 2020</p> <ul style="list-style-type: none"> <li>• 26102-20 Safety for Electricians</li> </ul>
Earn the OSHA 10 card.	English: 11.5, 12.5	<p>NCCER Core Curriculum: Introduction to Basic Construction, 2021</p> <ul style="list-style-type: none"> <li>• 00101 Basic Safety</li> </ul> <p>NCCER Electrical Level 1, 2020</p> <ul style="list-style-type: none"> <li>• 26102-20 Safety for Electricians</li> </ul>
Pass safety exam.	English: 11.5, 12.5	<p>NCCER Core Curriculum: Introduction to Basic Construction, 2021</p> <ul style="list-style-type: none"> <li>• 00101 Basic Safety</li> </ul> <p>NCCER Electrical Level 1, 2020</p> <ul style="list-style-type: none"> <li>• 26102-20 Safety for Electricians</li> </ul>
<b>Solving Mathematical Problems Related to the Electrical Field</b>		
Solve problems using direct and inverse relationships.	English: 11.5, 12.5	NCCER Electrical Level 1, 2020

Task	SOL Correlations	NCCER Correlations
		<ul style="list-style-type: none"> <li>• 26103-20 Introduction to Electrical Circuits</li> <li>• 26104-20 Electrical Theory</li> </ul>
Solve electrical problems using calculators.	English: 11.5, 12.5 Mathematics: T6, T7	NCCER Core Curriculum: Introduction to Basic Construction, 2021  <ul style="list-style-type: none"> <li>• 00102 Introduction to Construction Math</li> </ul> NCCER Electrical Level 1, 2020  <ul style="list-style-type: none"> <li>• 26103-20 Introduction to Electrical Circuits</li> <li>• 26104-20 Electrical Theory</li> </ul>
Convert metric prefixes to their numerical equivalents and vice-versa.		NCCER Core Curriculum: Introduction to Basic Construction, 2021  <ul style="list-style-type: none"> <li>• 00102 Introduction to Construction Math</li> </ul>
<b>Applying Basic Electrical Theory</b>		
Troubleshoot series circuits.	English: 11.5, 12.5  Science: PH.11	NCCER Electrical Level 1, 2020  <ul style="list-style-type: none"> <li>• 26103-20 Introduction to Electrical Circuits</li> </ul>

Task	SOL Correlations	NCCER Correlations
		<ul style="list-style-type: none"> <li>• 26104-20 Electrical Theory</li> <li>• 26112-20 Electrical Test Equipment</li> </ul>
Troubleshoot parallel circuits.	English: 11.5, 12.5  Science: PH.11	NCCER Electrical Level 1, 2020  <ul style="list-style-type: none"> <li>• 26103-20 Introduction to Electrical Circuits</li> <li>• 26104-20 Electrical Theory</li> <li>• 26112-20 Electrical Test Equipment</li> </ul>
Wire series-parallel (i.e., combination) circuits.	English: 11.5, 12.5  Science: PH.11	NCCER Electrical Level 1, 2020  <ul style="list-style-type: none"> <li>• 26103-20 Introduction to Electrical Circuits</li> <li>• 26104-20 Electrical Theory</li> </ul>
Calculate series-parallel (i.e., combination) circuits.	English: 11.5, 12.5  Mathematics: AII.3, AII.10  Science: PH.11	NCCER Electrical Level 1, 2020  <ul style="list-style-type: none"> <li>• 26103-20 Introduction to Electrical Circuits</li> <li>• 26104-20 Electrical Theory</li> </ul>
Troubleshoot series-parallel (i.e., combination) circuits.	English: 11.5, 12.5  Science: PH.11	NCCER Electrical Level 1, 2020  <ul style="list-style-type: none"> <li>• 26103-20 Introduction to Electrical Circuits</li> <li>• 26104-20 Electrical Theory</li> </ul>

Task	SOL Correlations	NCCER Correlations
		<ul style="list-style-type: none"> <li>26112-20 Electrical Test Equipment</li> </ul>
Explain nameplate specifications related to motors, generators, and transformers.	English: 11.5, 12.5	
<b>Applying the National Electrical Code (NEC) Book</b>		
Interpret the NEC requirements for electrical installation.	English: 11.5, 12.5	NCCER Electrical Level 1, 2020 <ul style="list-style-type: none"> <li>26105-20 Introduction to the National Electrical Code</li> <li>26111-20 Residential Wiring</li> </ul>
Apply the NEC requirements for electrical installation.	English: 11.5, 12.5	NCCER Electrical Level 1, 2020 <ul style="list-style-type: none"> <li>26105-20 Introduction to the National Electrical Code</li> <li>26111-20 Residential Wiring</li> </ul>
<b>Identifying and Installing Conduits and Raceways</b>		
Identify various conduits and raceways.	English: 11.5, 12.5	NCCER Electrical Level 1, 2020 <ul style="list-style-type: none"> <li>26106-20 Device Boxes</li> <li>26107-20 Hand Bending</li> </ul>

Task	SOL Correlations	NCCER Correlations
		<ul style="list-style-type: none"> <li>• 26108-20 Wireways, Raceways, and Fittings</li> <li>• 26109-20 Conductors and Cables</li> <li>• 26111-20 Residential Wiring</li> </ul>
Select material and wiring support systems.	English: 11.5, 12.5	NCCER Electrical Level 1, 2020 <ul style="list-style-type: none"> <li>• 26106-20 Device Boxes</li> <li>• 26107-20 Hand Bending</li> <li>• 26108-20 Wireways, Raceways, and Fittings</li> <li>• 26109-20 Conductors and Cables</li> <li>• 26111-20 Residential Wiring</li> </ul>
Install conduits.	English: 11.5, 12.5	NCCER Electrical Level 1, 2020 <ul style="list-style-type: none"> <li>• 26106-20 Device Boxes</li> <li>• 26107-20 Hand Bending</li> <li>• 26108-20 Wireways, Raceways, and Fittings</li> <li>• 26109-20 Conductors and Cables</li> <li>• 26111-20 Residential Wiring</li> </ul>
<b>Examining Lighting Systems</b>		



<b>Task</b>	<b>SOL Correlations</b>	<b>NCCER Correlations</b>
Install luminaires (i.e., light fixtures).	English: 11.5, 12.5	NCCER Electrical Level 1, 2020 <ul style="list-style-type: none"> <li>• 26110-20 Basic Electrical Construction Documents</li> <li>• 26111-20 Residential Wiring</li> </ul>
Explain the functions, operation, and characteristics of single-phase power systems.	English: 11.5, 12.5	NCCER Electrical Level 1, 2020 <ul style="list-style-type: none"> <li>• 26110-20 Basic Electrical Construction Documents</li> <li>• 26111-20 Residential Wiring</li> </ul>
Install power devices.	English: 11.5, 12.5	NCCER Electrical Level 1, 2020 <ul style="list-style-type: none"> <li>• 26109-20 Conductors and Cables</li> <li>• 26111-20 Residential Wiring</li> </ul>
Create a circuit using single-pole, three-way, and four-way switching systems.	English: 11.1, 11.5, 12.1, 12.5	NCCER Electrical Level 1, 2021 <ul style="list-style-type: none"> <li>• 26103-20 Introduction to Electrical Circuits</li> <li>• 26108-20 Wireways, Raceways, and Fittings</li> <li>• 26109-20 Conductors and Cables</li> </ul>

Task	SOL Correlations	NCCER Correlations
		<ul style="list-style-type: none"> <li>26110-20 Basic Electrical Construction Documents</li> </ul>
<b>Exploring Panelboards and Switchboards</b>		
Identify basic components of service entrance equipment.	English: 11.5, 11.6, 11.7, 12.5, 12.6, 12.7	NCCER Electrical Level 1, 2020 <ul style="list-style-type: none"> <li>26105-20 Introduction to the National Electrical Code</li> <li>26108-20 Wireways, Raceways, and Fittings</li> <li>26109-20 Conductors and Cables</li> <li>26110-20 Basic Electrical Construction Documents</li> <li>26111-20 Residential Wiring</li> </ul>
Select OCPDs.	English: 11.5, 12.5	NCCER Electrical Level 1, 2020 <ul style="list-style-type: none"> <li>26105-20 Introduction to the National Electrical Code</li> <li>26103-20 Introduction to Electrical Circuits</li> <li>26108-20 Wireways, Raceways, and Fittings</li> <li>26109-20 Conductors and Cables</li> </ul>
Install OCPDs.	English: 11.5, 12.5	NCCER Electrical Level 1, 2020

Task	SOL Correlations	NCCER Correlations
		<ul style="list-style-type: none"> <li>• 26109-20 Conductors and Cables</li> <li>• 26111-20 Residential Wiring</li> </ul>
Install various ground fault circuit interrupter (GFCI) and arc fault circuit interrupter (AFCI) devices.	English: 11.5, 12.5	NCCER Electrical Level 1, 2020 <ul style="list-style-type: none"> <li>• 26111-20 Residential Wiring</li> <li>• 26112-20 Electrical Test Equipment</li> </ul>
<b>Identifying and Installing Grounding Systems and Transformers</b>		
Identify characteristics of grounding systems.	English: 11.5, 12.5	NCCER Electrical Level 1, 2020 <ul style="list-style-type: none"> <li>• 26105-20 Introduction to the National Electrical Code</li> <li>• 26109-20 Conductors and Cables</li> <li>• 26111-20 Residential Wiring</li> </ul>
Illustrate sizing, layout, and installation of grounding systems.	English: 11.5, 12.5	NCCER Electrical Level 1, 2020 <ul style="list-style-type: none"> <li>• 26105-20 Introduction to the National Electrical Code</li> </ul>

Task	SOL Correlations	NCCER Correlations
		<ul style="list-style-type: none"> <li>• 26109-20 Conductors and Cables</li> <li>• 26111-20 Residential Wiring</li> </ul>
Install transformers.	English: 11.5, 12.5	NCCER Electrical Level 1, 2020 <ul style="list-style-type: none"> <li>• 26109-20 Conductors and Cables</li> <li>• 26111-20 Residential Wiring</li> <li>• 26112-20 Electrical Test Equipment</li> </ul>
<b>Investigating Environmentally Friendly Choices</b>		
Explore design choices that reflect conservation and efficient use of materials for a proposed building project.	English: 11.5, 11.8, 12.5, 12.8	
Explore design choices that reflect conservation and efficient use of energy for a proposed building project.	English: 11.5, 11.8, 12.5, 12.8	
Explore design choices that reflect conservation and efficient use of water for a proposed building project.	English: 11.5, 11.8, 12.5, 12.8	

Task	SOL Correlations	NCCER Correlations
Explore design choices that can affect indoor air quality (IAQ) for a proposed building project.	English: 11.5, 11.8, 12.5, 12.8	