

Title:	<b>Electrical, Level 1, 2020 NEC Update</b>
Edition:	<b>10</b>
Publication Date:	<b>2020</b>
Additional Instructor Requirement(s):	<b>None</b>
Prerequisite(s):	<b>Core</b>
Previous Edition Expiration Date:	<b>www.nccer.org/expirations</b>



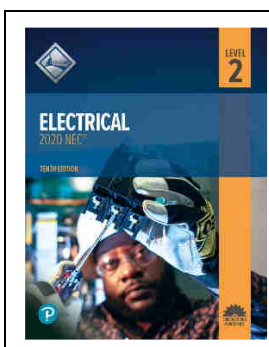
Book Module Number	Module Name	9 <sup>th</sup> Edition Mod ID #	10 <sup>th</sup> Edition Mod ID #	10 <sup>th</sup> Edition Hours	9 <sup>th</sup> Edition Hours	Equivalent Registry Module(s)	Performance Profile	Comments
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1	<b>Occupational Overview: The Electrical Industry</b>	26101-17	<b>26101-20</b>	<b>2.5</b>	2.5	26101-17 26101-14	No	<ul style="list-style-type: none"> <li>• New title</li> <li>• Additional industry careers</li> <li>• New sidebars highlighting modern electrical installations</li> <li>• New training on professionalism when using email, text, and social media.</li> </ul>
2	<b>Safety for Electricians</b>	26102-17	<b>26102-20</b>	<b>10</b>	10	26102-17 26102-14	Yes	<ul style="list-style-type: none"> <li>• New title</li> <li>• Added coverage of NFPA 70E</li> <li>• New sections on employee and employer responsibilities for safety; shock and arc blast hazards; new PPE (E-rated hard hats and prescription eye protection), expanded ladder safety.</li> </ul>
3	<b>Introduction to Electrical Circuits</b>	26103-17	<b>26103-20</b>	<b>7.5</b>	7.5	26103-17 26103-14	No	
4	<b>Electrical Theory</b>	26104-17	<b>26104-20</b>	<b>7.5</b>	7.5	26104-17 26104-14	No	
5	<b>Introduction to the National Electrical Code®</b>	26105-17	<b>26105-20</b>	<b>7.5</b>	7.5	26105-17 26105-14	Yes	<ul style="list-style-type: none"> <li>• Coverage on NFPA numbering standard added</li> <li>• IEEE and IEC standards added</li> <li>• Additional trainee exercises to reinforce code navigation</li> </ul>
6	<b>Device Boxes</b>	26106-17	<b>26106-20</b>	<b>10</b>	10	26106-17 26106-14	Yes	
7	<b>Hand Bending</b>	26107-17	<b>26107-20</b>	<b>10</b>	10	26107-17 26107-14	Yes	
8	<b>Wireways, Raceways, and Fittings</b>	26108-17	<b>26108-20</b>	<b>20</b>	20	26108-17 26108-14	Yes	• New title
9	<b>Conductors and Cables</b>	26109-17	<b>26109-20</b>	<b>10</b>	10	26109-17 26109-14	Yes	
10	<b>Basic Electrical Construction Documents</b>	26110-17	<b>26110-20</b>	<b>7.5</b>	7.5	26110-17 26110-14	Yes	<ul style="list-style-type: none"> <li>• New title</li> <li>• Additional information on job specifications</li> <li>• New electrical symbols, such as USB receptacles.</li> </ul>
11	<b>Residential Wiring</b>	26111-17	<b>26111-20</b>	<b>15</b>	15	26111-17 26111-14	Yes	<ul style="list-style-type: none"> <li>• New title</li> <li>• Heavy code changes</li> </ul>
12	<b>Electrical Test Equipment</b>	26112-17	<b>26112-20</b>	<b>5</b>	5	26112-17 26112-14	Yes	• New testing technology added, including bluetooth capability
			<b>Total Hours</b>	<b>185</b>	185			

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**Color Highlight Legend:**

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Title:	<b>Electrical, Level 2, 2020 NEC Update</b>
Edition:	<b>10</b>
Publication Date:	<b>2020</b>
Additional Instructor Requirement(s):	<b>None</b>
Prerequisite(s):	<b>None</b>
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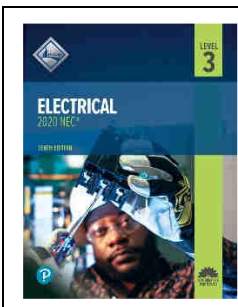
Book Module Number	Module Name	9 <sup>th</sup> Edition Mod ID #	10 <sup>th</sup> Edition Mod ID #	10 <sup>th</sup> Edition Hours	9 <sup>th</sup> Edition Hours	Equivalent Registry Module(s)	Performance Profile	Comments
1	<b>Alternating Current</b>	26201-17	<b>26201-20</b>	<b>17.5</b>	17.5	26201-17 26201-14	No	
2	<b>Motors: Theory and Application</b>	26202-17	<b>26202-20</b>	<b>20</b>	20	26202-17 26202-14	Yes	
3	<b>Electric Lighting</b>	26203-17	<b>26203-20</b>	<b>15</b>	15	26203-17 26203-14	Yes	• Revised with a focus on current lighting technology, with LED as the main focus.
4	<b>Conduit Bending</b>	26204-17	<b>26204-20</b>	<b>15</b>	15	26204-17 26204-14	Yes	
5	<b>Pull and Junction Boxes</b>	26205-17	<b>26205-20</b>	<b>12.5</b>	12.5	26205-17 26205-14	Yes	
6	<b>Conductor Installations</b>	26206-17	<b>26206-20</b>	<b>10</b>	10	26206-17 26206-14	Yes	
7	<b>Cable Tray</b>	26207-17	<b>26207-20</b>	<b>7.5</b>	7.5	26207-17 26207-14	Yes	
8	<b>Conductor Terminations and Splices</b>	26208-17	<b>26208-20</b>	<b>7.5</b>	7.5	26208-17 26208-14	Yes	
9	<b>Grounding and Bonding</b>	26209-17	<b>26209-20</b>	<b>15</b>	15	26209-17 26209-14	Yes	
10	<b>Circuit Breakers and Fuses</b>	26210-17	<b>26210-20</b>	<b>12.5</b>	12.5	26210-17 26210-14	Yes	
11	<b>Control Systems and Fundamental Concepts</b>	26211-17	<b>26211-20</b>	<b>12.5</b>	12.5	26211-17 26211-14	Yes	
			<b>Total Hours</b>	<b>145</b>	145			

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Additional Instructor Requirement(s):	<b>None</b>
Prerequisite(s):	<b>None</b>
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Book Module Number	Module Name	9 <sup>th</sup> Edition Mod ID #	10 <sup>th</sup> Edition Mod ID #	10 <sup>th</sup> Edition Hours	9 <sup>th</sup> Edition Hours	Equivalent Registry Module(s)	Performance Profile	Comments
1	<b>Load Calculations – Branch and Feeder Circuits</b>	26301-17	<b>26301-20</b>	<b>17.5</b>	17.5	26301-17 26301-14	No	• Heavy code changes
2	<b>Conductor Selection and Calculations</b>	26302-17	<b>26302-20</b>	<b>15</b>	15	26302-17 26302-14	No	
3	<b>Practical Applications of Lighting</b>	26303-17	<b>26303-20</b>	<b>12.5</b>	12.5	26303-17 26303-14	Yes	• Revised with a focus on current lighting technology, with LED as the main focus.
4	<b>Hazardous Locations</b>	26304-17	<b>26304-20</b>	<b>15</b>	15	26304-17 26304-14	Yes	
5	<b>Overcurrent Protection</b>	26305-17	<b>26305-20</b>	<b>25</b>	25	26305-17 26305-14	No	
6	<b>Distribution Equipment</b>	26306-17	<b>26306-20</b>	<b>12.5</b>	12.5	26306-17 26306-14	No	
7	<b>Transformers</b>	26307-17	<b>26307-20</b>	<b>12.5</b>	12.5	26307-17 26307-14	No	
8	<b>Commercial Electrical Services</b>	26308-17	<b>26308-20</b>	<b>10</b>	10	26308-17 26308-14	No	
9	<b>Motor Calculations</b>	26309-17	<b>26309-20</b>	<b>12.5</b>	12.5	26309-17 26309-14	No	
10	<b>Voice, Data, and Video</b>	26310-17	<b>26310-20</b>	<b>10</b>	10	26310-17 26310-14	No	• Revised with updated cable types (CAT 6 and up) • Captures NEC reorganization of Chapter 8
11	<b>Motor Controls</b>	26311-17	<b>26311-20</b>	<b>12.5</b>	12.5	26311-17 26311-14	Yes	
			<b>Total Hours</b>	<b>155</b>	155			

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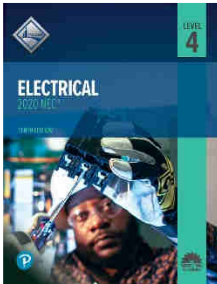
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	Edition:	<b>10</b>
	Publication Date:	<b>2020</b>
	Additional Instructor Requirement(s):	<b>None</b>
	Prerequisite(s):	<b>None</b>
	Previous Edition Expiration Date:	<b>www.nccer.org/expirations</b>



Book Module Number	Module Name	9 <sup>th</sup> Edition Mod ID #	10 <sup>th</sup> Edition Mod ID #	10 <sup>th</sup> Edition Hours	9 <sup>th</sup> Edition Hours	Equivalent Registry Module(s)	Performance Profile	Comments
1	Load Calculations - Feeders and Services	26401-17	<b>26401-20</b>	<b>20</b>	20	26401-17 26401-14	No	• Heavy code changes
2	Health Care Facilities	26402-17	<b>26402-20</b>	<b>10</b>	10	26402-17 26402-14	No	
3	Standby and Emergency Systems	26403-17	<b>26403-20</b>	<b>10</b>	10	26403-17 26403-14	No	
4	Basic Electronic Theory	26404-17	<b>26404-20</b>	<b>10</b>	10	26404-17 26404-14	Yes	
5	Fire Alarm Systems	26405-17	<b>26405-20</b>	<b>15</b>	15	26405-17 26405-14	Yes	
6	Specialty Transformers	26406-17	<b>26406-20</b>	<b>10</b>	10	26406-17 26406-14	Yes	
7	Advanced Controls	26407-17	<b>26407-20</b>	<b>20</b>	20	26407-17 26407-14	Yes	<ul style="list-style-type: none"> <li>• Section added on connecting SSRs to switch multiple outputs</li> <li>• New section on motor control maintenance</li> <li>• Information added about dynamic breaking for adjustable frequency drives</li> <li>• Sections added on AFD components; uses and benefits of AFDs, and AFD application precautions.</li> </ul>
8	HVAC Controls	26408-17	<b>26408-20</b>	<b>15</b>	15	26408-17 26408-14	Yes	<ul style="list-style-type: none"> <li>• Information on mercury thermostats reduced and added a section on disposal of mercury thermostats,</li> <li>• Added digital and smart thermostats</li> <li>• Communicating thermostats and home automation added</li> <li>• Information on thermocouples and standing pilots reduced</li> <li>• Building management systems/energy management systems information updated</li> <li>• Direct digital control systems and addressable systems added</li> </ul>
9	Heat Tracing and Freeze Protection	26409-17	<b>26409-20</b>	<b>10</b>	10	26409-17 26409-14	Yes	
10	Motor Operation and Maintenance	26410-17	<b>26410-20</b>	<b>10</b>	10	26410-17 26410-14	No	
11	Medium-Voltage Terminations/Splices	26411-17	<b>26411-20</b>	<b>10</b>	10	26411-17 26411-14	Yes	
12	Special Locations	26412-17	<b>26412-20</b>	<b>20</b>	20	26412-17 26412-14	No	• Heavy code changes
13	Fundamentals of Crew Leadership	46101-17	<b>46101-20</b>	<b>22.5</b>	20	46101-17 46101-14	Yes	
			<b>Total Hours</b>	<b>182.5</b>	180			

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