



Title:	<b>Millwright, Level 2</b>
Edition:	<b>4</b>
Publication Date:	<b>Novemeber 2021</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	3 <sup>rd</sup> Edition Mod ID #	4 <sup>th</sup> Edition Mod ID #	4 <sup>th</sup> Edition Hours	3 <sup>rd</sup> Edition Hours	Equivalent Registry Module(s)	Performance Profile	Comments
1	<b>Craft-Related Mathematics</b>	15201-06	<b>15201</b>	<b>20</b>	20	15201-06	No	<ul style="list-style-type: none"> <li>Aligned with the new Core Math</li> <li>Updated terminology and explanations</li> </ul>
2	<b>Precision Measuring Tools</b>	15302-08	<b>15302</b>	<b>20</b>	15	15302-08	Yes	<ul style="list-style-type: none"> <li>Moved from level 3</li> <li>Learn the usage of all the precision tools</li> <li>Tool pictures from main manufacturers</li> <li>Added new electronic versions of tools</li> </ul>
3	<b>Millwright Power Tools</b>	15205-07	<b>15205</b>	<b>22.5</b>	20	15205-07	Yes	<ul style="list-style-type: none"> <li>Additional material on safe tool operation</li> <li>Updated photos for drill presses and other varied tools</li> <li>Includes information on drilling speeds for various materials</li> <li>Broad coverage of bandsaws, blade types and selection</li> </ul>
4	<b>Setting Baseplates and Soleplates</b>	15207-07	<b>15207</b>	<b>20</b>	15	15207-07	Yes	<ul style="list-style-type: none"> <li>Established a strong distinction between baseplates and soleplates</li> <li>Covers new devices used for this task</li> </ul>
5	<b>Rigging Practices</b>	---	<b>38102</b>	<b>15</b>	15	38102 (3E)	Yes	<ul style="list-style-type: none"> <li>Applied directly from the Rigging Craft.</li> <li>Hand signals and identification have been added.</li> </ul>
6	<b>Oxyfuel Cutting</b>	---	<b>29102</b>	<b>17.5</b>	17.5	29102-15, 29102 (5E)	Yes	<ul style="list-style-type: none"> <li>Shares knowledge from welding relevant to millwright craft</li> </ul>
7	<b>Gaskets and Packing</b>	---	<b>15107</b>	<b>15</b>	--	---	Yes	<ul style="list-style-type: none"> <li>New Title</li> <li>Improved images of packing materials</li> </ul>
8	<b>O-Rings and Non-Mechanical Seals</b>	15304-08	<b>15304</b>	<b>7.5</b>	5	15304-08	Yes	<ul style="list-style-type: none"> <li>Improved images</li> <li>Coverage of tools used to remove and replace seals</li> </ul>
9	<b>Introduction to Bearings</b>	15209-07	<b>15209</b>	<b>15</b>	15	15209-07	Yes	<ul style="list-style-type: none"> <li>Updated images</li> <li>Improved sections explaining how different types of bearing function.</li> </ul>
10	<b>Removing and Installing Bearings</b>	15306-08	<b>15306</b>	<b>22.5</b>	20	15306-08	Yes	<ul style="list-style-type: none"> <li>Improved section on installation.</li> <li>Includes detailed and specific information relevant to craft</li> </ul>
11	<b>Plasma Arc Cutting</b>	---	<b>29103</b>	<b>7.5</b>	7.5	29103-15, 29103 (5E)	Yes	<ul style="list-style-type: none"> <li><b>ELECTIVE</b></li> <li>Shares knowledge from welding relevant to millwright craft</li> </ul>
12	<b>Craft-Related Algebra and Trigonometry</b>	15301-08	<b>15301</b>	<b>30</b>	20	15301-08	No	<ul style="list-style-type: none"> <li><b>ELECTIVE</b></li> <li>New algebra section with key concepts such as variables, formulas, and equation balancing and solving</li> <li>Trigonometry section builds on skills developed in the algebra section</li> <li>Example problems designed to be relevant to craft</li> </ul>
Deleted	Specialty Tools	15204-07	---	---	10			
Deleted	Rigging	15206-07	---	---	20			

<b>Total Required Hours</b>	175	150
<b>Total Hours (with Elective)</b>	212.5	

**Definitions:**

- Lock-Down Module:** A module adopted “as-is” from another craft or an earlier edition of the same curriculum.
- Equivalent Module:** A module whose learning and performance outcomes match those of the newer editions and is therefore considered ‘equivalent’ in NCCER’s Registry.
- Interim Credential:** A module, or group of modules, whose learning and performance outcomes demonstrates competence of specific components in an occupational area and results in a unique credential in the Registry.

**Color Highlight Legend:**

- = No Performance Test
- = Lock-Down Module
- = Equivalent Module
- = Deleted