

**CCTI**  
**Essential Skills Chart**  
**Carpentry**

<b>Carpentry</b> <b>46.0201</b>	
<b>Objective of Technical Education-</b> <ul style="list-style-type: none"> <li>➤ Upon successful completion of this program, students will be prepared for an entry level position in the field of Carpentry, which includes- framing, construction, measuring, estimating, blueprint reading, and finishing techniques.</li> <li>➤ Students are offered the opportunity to acquire the technical knowledge and apply skills to lay out, fabricate, erect, install and repair structures and fixtures using hand, power tools, levels and planes.</li> <li>➤ Students learn required safety practices and procedures in the theory classroom first, and apply in the Carpentry lab.</li> <li>➤ Some projects involve- making and installing doors, floors, frames, furniture, cabinetry, shelves, roofs, and building modular homes for customers.</li> </ul>	
<b>PROGRAM SAFETY REQUIREMENTS</b>	<ul style="list-style-type: none"> <li>• FOLLOW ESTABLISHED SAFETY RULES, REGULATIONS AND PROCEDURES</li> <li>• MAINTAIN SAFE AND CLEAN WORKSPACE</li> <li>• INSPECTING EQUIPMENT TO IDENTIFY DEFECTS</li> <li>• LADDER AND SCAFFOLD SAFETY</li> <li>• OSHA CERTIFICATION PRIOR TO ENTERING THE HANDS-ON LAB</li> </ul>
<b>ABILITIES/SKILLS</b>	<ul style="list-style-type: none"> <li>• KNOWLEDGE OF MEASURING TOOLS</li> <li>• ABILITY TO READ MEASURING TOOLS AND CALCULATE MEASUREMENTS</li> <li>• BASIC CALCULATION SKILLS MENTALLY AND WITHOUT A CALCULATOR</li> <li>• FEELING COMFORTABLE USING SHARP HAND AND POWER TOOLS</li> <li>• ESTIMATING SKILLS</li> <li>• PAY CLOSE ATTENTION TO DETAILS</li> <li>• ABLE TO COMMUNICATE FACE TO FACE</li> <li>• LISTEN TO CUSTOMERS AND EMPLOYERS</li> <li>• PROBLEM SOLVING SKILLS</li> <li>• INDEPENDENCE</li> <li>• DEMONSTRATES EFFORT</li> <li>• ABLE TO WORK COOPERATIVELY WITH OTHERS</li> <li>• ABILITY TO START AND PROJECT AND SEE IT THROUGH THE END</li> </ul>
<b>ACADEMIC SKILLS</b>  <b>READING</b> <b>MATH</b> <b>SCIENCE</b>	<ul style="list-style-type: none"> <li>• TEACHER-MADE PRESENTATIONS, ONLINE MATERIALS AND RESOURCES ARE USED</li> <li>• WRITING SKILLS</li> <li>• CALCULATE &amp; APPLY MATH SKILLS RELATED TO MEASURING, SQUARE FOOTAGE, AREA, PERIMETER, DIAMETER, CIRCUMFERENCE, STANDARD AND METRIC UNITS OF</li> </ul>

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	<p>MEASURE, ARITHMETIC, ALGEBRA, GEOMETRY, CALCULUS, STATISTICS AND THEIR APPLICATIONS, MULTIPLICATION, DIVISION, DECIMALS, FRACTIONS</p> <ul style="list-style-type: none"> <li>• ENGINEERING SCIENCE AND TECHNOLOGY CONCEPTS AND PRINCIPLES</li> <li>• ESTIMATE COSTS</li> <li>• DEMONSTRATE PROBLEM SOLVING SKILLS</li> <li>• BLUE PRINT READING AND SPECIFICATIONS</li> <li>• PHYSICAL DISABILITIES SPECIFICATIONS AND REGULATIONS</li> <li>• ABILITY TO FOLLOW STEP BY STEP WRITTEN INSTRUCTIONS TO ASSEMBLE OBJECTS, STRUCTURES</li> </ul>
<b>PHYSICAL REQUIREMENTS</b>	<ul style="list-style-type: none"> <li>• ABLE TO WITHSTAND LOUD MACHINERY, VOICES, AND NOISES</li> <li>• ABLE TO STAND FOR LONG PERIODS OF TIME</li> <li>• ABILITY TO PAY CLOSE ATTENTION TO DETAILS</li> <li>• ABLE TO CLIMB AND STAND ON A LADDER FOR EXTENDED PERIODS OF TIME</li> <li>• ABILITY TO LIFT HEAVY OBJECTS</li> <li>• NEAR VISION</li> <li>• FINGER AND MANUAL DEXTERITY</li> <li>• ABILITY TO VISUAL A FINISHED PRODUCT</li> <li>• USE OF LOWER BACK AND STOMACH MUSCLES</li> </ul>
<b>SOFT SKILLS</b>	<ul style="list-style-type: none"> <li>• COOPERATE &amp; COMMUNICATE WITH OTHERS</li> <li>• ABILITY TO WORK WITH OTHERS TO SHARE IDEAS AND SOLVE PROBLEMS TOGETHER</li> <li>• ACTIVELY LISTEN TO CUSTOMER’S NEEDS WITHOUT INTERRUPTING</li> <li>• USE TIME WISELY</li> <li>• CONDUCT ONESELF MATURELY</li> <li>• ACCEPT DIRECTIVES &amp; CONSTRUCTIVE CRITICISM</li> </ul>
<b>CLASSROOM ASSIGNMENTS, ASSESSMENTS &amp; TASKS</b>	<ul style="list-style-type: none"> <li>• CLASSWORK/HOMEWORK</li> <li>• TEACHER MADE TESTS AND QUIZZES</li> <li>• GOOGLE CLASSROOM ASSIGNMENTS</li> <li>• PROJECTS</li> <li>• WORK PERFROMANCE AND ETHIC GRADES</li> <li>• MATH ASSIGNMENTS</li> <li>• NOCTI (END OF 12<sup>TH</sup> GRADE)</li> <li>• BENCHMARK ASSESSMENTS (PRE-NOCTI)</li> <li>• TASK LIST- PROGRAM OF STUDY</li> </ul>
<b>INDUSTRY CERTIFICATIONS</b>	<ul style="list-style-type: none"> <li>• OSHA CERTIFICATION</li> <li>• NOCTI</li> <li>• LADDER AND SCAFFOLD SAFETY CERTIFICATION</li> </ul>

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	<ul style="list-style-type: none"> <li>• SP2 CERTIFICATIONS</li> </ul>
<b>PROGRAM UNIFORM/COSTS/MATERIALS</b>	<ul style="list-style-type: none"> <li>• SAFETY GLASSES (1 PAIR PROVIDED)</li> <li>• WORK SHIRT (1 PROVIDED; ADDITIONAL SHIRTS= \$20)</li> <li>• JEANS OR WORK PANTS- \$20+</li> </ul>
<b>ARTICULATION AGREEMENTS</b>	<ul style="list-style-type: none"> <li>• LCCC</li> </ul>
<b>COOPERATIVE OPPORTUNITIES</b>	<ul style="list-style-type: none"> <li>• BASED ON JOB AVAILABILITY, TEACHER RECOMMENDATION, GRADES OF 77% AND HIGHER, GOOD ATTENDANCE, GOOD BEHAVIOR, DRIVER'S LICENSE AND OWN TRANSPORTATION</li> <li>• PARTNERS- RUSSELL MUFFLEY ROOFING AND SIDING</li> </ul>
<b>EMPLOYMENT OUTLOOK &amp; PROJECTED SALARY</b>	<ul style="list-style-type: none"> <li>• EMPLOYMENT OPPORTUNITIES: CABINET MAKER, CARPENTER, SCAFFOLD BUILDER, FRAMER, HANDYMAN, FORM CARPENTER</li> <li>• PA MEDIUM WAGES= \$23.20 hourly, \$48,260 annually</li> </ul>
<b>How to find out more?</b>	<ul style="list-style-type: none"> <li>• <a href="https://www.onetonline.org">https://www.onetonline.org</a></li> <li>• <a href="http://www.carboncti.org">www.carboncti.org</a></li> <li>• <a href="https://www.youtube.com/watch?v=OemtzytKdzY">https://www.youtube.com/watch?v=OemtzytKdzY</a></li> <li>• <a href="https://www.onetonline.org/link/summary/47-2031.00">https://www.onetonline.org/link/summary/47-2031.00</a></li> <li>• <a href="https://www.mynextmove.org/profile/summary/47-2031.00">https://www.mynextmove.org/profile/summary/47-2031.00</a></li> </ul>