



## AMT 0509 Composites and Capstone Project

Course Description: In this course, the student will learn about composite materials. In addition, the student will demonstrate their competence to analyze, design, develop, and test Aircraft Structural Assembly and Fabrication techniques. (12 Clock Hours)

Course Competency	Learning Outcomes
<p><b>Competency 1:</b> The student will demonstrate knowledge of Composite materials and their safe handling in the field by:</p>	<ul style="list-style-type: none"> <li>• Communication</li> <li>• Numbers / Data</li> <li>• Critical thinking</li> <li>• Information Literacy</li> </ul>
<ol style="list-style-type: none"> <li>1. Defining basic composite materials.</li> <li>2. Identifying typical composite applications.</li> <li>3. Examining the advantages and disadvantages of composite materials.</li> <li>4. Identifying the proper personal protective equipment.</li> <li>5. Demonstrating the proper storage and handling of materials.</li> <li>6. Identifying the proper disposal of materials.</li> </ol>	
<p><b>Competency 2:</b> The student will demonstrate ability to integrate knowledge from the various levels of the Structures Technician course by:</p>	
<ol style="list-style-type: none"> <li>1. Identifying &amp; completing an approved Repair Project using Drawings &amp; Specifications.</li> <li>2. Identifying &amp; completing an approved Servicing Project using appropriate Aviation Manuals.</li> <li>3. Identifying &amp; completing an approved Assembly Project using Drawings &amp; Specifications.</li> <li>4. Identifying &amp; completing an approved Metal Project using Drawings &amp; Specifications.</li> </ol>	

