

AMT 0046 Aircraft Materials, Hardware & Processes

CourseIn this course, the student will learn about chemical processes, hazards of aviationDescription:solvents, lubricants, effects of corrosion on metals and aluminum, and measuring
and sheet metal layout. Prerequisites: AMT 0044 and AMT 0045. (68 Clock Hours)

Course Competency	Learning Outcomes
Competency 1: The student will demonstrate knowledge of aviation hand tools and safe handling in the field by:	 Communication Numbers / Data Critical thinking Information Literacy
 Identifying proper tools to complete the task. Conducting tool inspection for calibration. Demonstrating basic tool safety. Identifying the proper personal protective equipment. Demonstrating the proper storage and handling of materials. 6. Identifying the proper disposal of materials. 	
Competency 2: The student will demonstrate appropriate understanding of aviation science by:	 Communication Numbers / Data Critical thinking Information Literacy
 Identifying unique metals used in the aviation industry. Identifying hazards in aviation supplies. Identifying health related problems due to work related chemicals. Determining material classification and composition. 	
Competency 3: The student will demonstrate appropriate understanding of basic aviation corrosion control:	 Communication Numbers / Data Critical thinking Information Literacy
 Distinguishing types of corrosion and causes. Determining the effects of corrosion and impact on aviation. Identifying types of contamination. 	
Competency 4: The student will identify causes of delamination and identify dissimilar materials corrosion by:	 Communication Numbers / Data Critical thinking Information Literacy

1. Identifying causes of dissimilar metal corrosion. 2. Determining	
corrosion preventative methods.	
3. Determining metal for working surface and preparation.	
4. Evaluating project and select appropriate tools. 5. Preparing edge	
distance and spacing on metal.	