

Course Competency

AMT 0045 Tools, Materials, and Process 2

Course Description

In this course, the student will learn the principles of corrosion and how to control it are studied and applied. This course provides experience in detecting, identifying, removal, and treatment of the various types of corrosion found on ferrous and non-ferrous metals. In addition, the student will learn about various forms of truss-types and how beams, struts, and bars resist deformation by applied loads. (40 clock hours)

Course Competency	Learning Outcomes
<p>Competency 1:The student will learn the basic types of corrosion recognition by:</p>	<ol style="list-style-type: none"> 1. Communication 2. Numbers / Data 3. Critical thinking 4. Information Literacy
<ol style="list-style-type: none"> 1. Identifying the cause's corrosion. 2. Identifying and examining the types of corrosion. 3. Comparing and contrasting the effects of corrosion. 4. Analyzing dissimilar material corrosion. 	
<p>Competency 2:The student will learn treatment and preventative methods by:</p>	<ol style="list-style-type: none"> 1. Communication 2. Numbers / Data 3. Critical thinking 4. Information Literacy
<ol style="list-style-type: none"> 1. 1. Demonstrating corrosion prevention methods: • Chemical Cleaning • Anodizing • Alodizing • Chromic Acid Inhibitor • Sodium Dichromate Solution • Prime and Paint Touchup 2. Identifying material handling in manufacturing: • Use of Personal Protective Equipment • Review of relevant specifications and application procedures • Application of corrosion 	

preventative compounds • Post application inspection 3. Identifying and adhering to proper waste disposal procedures in accordance with the applicable governing agencies.

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