# Aerostructures II Course No. 40630 Credit: 1.0

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| **Student name:**  |  | **Graduation Date:** |  |

Pathways and CIP Codes:Aviation Production (15.0000) - Production Strand

Course Description: An **application level** course designed to teach students to master the techniques associated with aerospace mechanical assembly. (Prerequisite: Aerostructures I.)

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

## Benchmark 1: Click or tap here to enter text.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Describe the hazards and PPE associated with sealants |  |
| 1.2 | Identify the appropriate sealant for each project |  |
| 1.3 | Demonstrate the basic concepts associate with aerospace sealant processes |  |
| 1.4 | Identify guidelines for proper application of sealant including issues of surface temperature, sealant expiration, and sealant consistency |  |
| 1.5 | Install and properly seal a direct ground stud installation |  |
| 1.6 | Understand principles and application of torque |  |
| 1.7 | Install and remove close to tolerance specialty fasteners |  |
| 1.8 | Demonstrate special techniques for drilling and countersinking on a curved surface |  |
| 1.9 | Practice fastener installation on a curved surface |  |
| 1.10 | Produce close tolerance holes in composite materials and materials harder than aluminum |  |
| 1.11 | Employ techniques used in fastener removal and installation |  |
| 1.12 | Demonstrate various types of patch repairs |  |
| 1.13 | Perform teamwork skills to Layout and produce project |  |
| 1.14 | Conduct Team Bucking Skills |  |
| 1.15 | Install stringers and hat sections |  |
| 1.16 | Describe and discuss the elements of assembly in terms of quality and inspection |  |
| 1.17 | Utilize techniques used in application of non-conforming aspects |  |
| 1.18 | Describe proper demonstration of documentation of FAA guidelines and related costing features |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

CTE Pathways Help Desk

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