# Assembly Design Course No. 41505 Credit: 0.5

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

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

Course Description: An **application level** course that teaches students assembly design through the use of advanced assembly and navigation tools. (CATIA 2)

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: Create projects that utilize the components of assembly design

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Identify the Assembly Design Workbench. |  |
| 1.2 | Manipulate components in an assembly. |  |
| 1.3 | Constrain components in an assembly. |  |
| 1.4 | Modify components in an assembly. |  |
| 1.5 | Insert components in an assembly. |  |
| 1.6 | Work with the links of the assembly. |  |
| 1.7 | Create parts within the assembly structure. |  |
| 1.8 | Create scenes and annotated views. |  |

## Benchmark 2: Demonstrate how to effectively measure and analyze concepts using digital mock up analysis tools

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Identify the digital mock up tools. |  |
| 2.2 | Perform measurements. |  |
| 2.3 | Perform analyses including clash and section. |  |
| 2.4 | Capture pictures and create xml files for external use. |  |

## Benchmark 3: Click or tap here to enter text.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 3.1 | Identify the digital mock up tools. |  |
| 3.2 | Manipulate components in an assembly. |  |
| 3.3 | Constrain components in an assembly. |  |
| 3.4 | Modify components in an assembly. |  |
| 3.5 | Insert components in an assembly. |  |
| 3.6 | Work with the links of the assembly. |  |
| 3.7 | Create parts within the assembly structure. |  |

## Benchmark 4: Demonstrate how to effectively manipulate navigation tools in assembly design and digital mock up analysis tools

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 4.1 | Utilize all of the navigation tools. |  |

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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