# Drafting - CAD Course No. 21107 Credit: 1.0

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

Pathways and CIP Codes: Aviation Production (15.0000) - Design Strand; Construction & Design (46.0000) - Design Strand; **Engineering & Applied Mathematics (14.0101)**; Manufacturing (48.0000) - Production Strand; Business Management & Entrepreneurship (52.0799)

Course Description:

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 0: The following competency is to be taught within ALL technical level courses offered in your school’s approved pathway

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 0.1 | Demonstrate an understanding of industry standards for personal safety including the safe use of tools, equipment, and hazardous materials.  |  |

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

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Identify and demonstrate the use of CAD commands and system peripherals. |  |
| 1.2 | Demonstrate proficiency in setting limits and scale on the CAD system. |  |
| 1.3 | Demonstrate proficiency in setting, turning on and turning off layers. |  |
| 1.4 | Place text on a drawing and be able to change to different font styles, sizes, and angles. |  |
| 1.5 | Be proficient in the use of printer/plotter operations. |  |
| 1.6 | Demonstrate ability to place text on a drawing and change to different font styles, sizes, and angles. |  |
| 1.7 | Demonstrate ability to dimension drawings on the CAD system. |  |
| 1.8 | Construct drawings using straight line, circle, and hidden line statements, etc. |  |
| 1.9 | Set grid and snap specifications. |  |
| 1.10 | Define and use commands to modify a drawing. |  |
| 1.11 | Use symbols (from a symbol library) in a drawing. |  |

## Benchmark 2: Build and Design

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Create standard drawings for templates. |  |
| 1.2 | Demonstrate the ability to load, store files, and transport files via Internet. |  |
| 1.3 | Construct isometric and 3D drawings. |  |
| 1.4 | Use CAD drawings to produce a high or low-fidelity prototype or model. |  |

## Benchmark 3: Dimensioning

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Demonstrate proficiency in setting limits and scale on the CAD system. |  |
| 1.2 | Demonstrate the ability to dimension drawings on the CAD system. |  |

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

Instructor Signature:

For more information, contact:

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