# Drafting - CAD Course No. 21107 Credit: 1.0

|  |  |  |  |
| --- | --- | --- | --- |
| **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:

CTE Pathways Help Desk

(785) 296-4908

[pathwayshelpdesk@ksde.org](mailto:pathwayshelpdesk@ksde.org)



900 S.W. Jackson Street, Suite 102

Topeka, Kansas 66612-1212

[https://www.ksde.org](https://www.ksde.org/)

The Kansas State Department of Education does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities and provides equal access to any group officially affiliated with the Boy Scouts of America and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: KSDE General Counsel, Office of General Counsel, KSDE, Landon State Office Building, 900 S.W. Jackson, Suite 102, Topeka, KS 66612, (785) 296-3201.