

**PENNSYLVANIA COLLEGE
OF TECHNOLOGY
ONE COLLEGE AVENUE
WILLIAMSPORT, PA 17701**

Name

School

Student ID Number

Date

COMPETENCY ASSESSMENT
for
**ARCHITECTURAL TECHNOLOGY (AT) and
BUILDING SCIENCE AND SUSTAINABLE DESIGN (BSD)**

The following validated competencies represent those included in the first year of the program. Please assess each applicable competency by circling the appropriate code letter, then sign, date and return the form to the College's Admissions office using the above address.

RATING SCALE

H = Highly skilled ----- able to work independently 90%> or A
M = Moderately skilled -- requires minimum supervision 80%> or B
L = Limited skills ----- requires full supervision 70%> or C *
NA = Not covered in instruction or work experience
 * Scores below 70% or **C** will not transfer for credit

(In addition to receiving a satisfactory rating of the competencies, the student will be required to pass a basic test in CAD skills. Students desiring credit for our architectural working drawings course (ACH128) must submit a portfolio of CAD generated residential working drawings. Test results, ratings on the competencies, and portfolio will be used to determine granting of advanced placement credit.)

PART I COMPETENCY ASSESSMENT

1. Sectioning: Layout and Construct Sectional Views (ACH128)

H M L N a. Architectural wall & Building sections

2. Size Description (ACH 128)

H M L N a. Understand the systems of dimensioning (lines, spacing, leaders, etc.)

H M L N b. Understand the choice of dimensions

H M L N c. Understand the systems of dimensioning:

1. Placement of dimensions

2. Types of dimensions

H M L N d. Dimension geometric shapes

H M L N e. Layout architectural dimensioning and notes

3. Reproduction and Control of Drawings (ACH 128)

H M L N a. Describe methods of drawing reproduction

4. Working Drawings – Residential (ACH128)

H M L N a. Prepare preliminary sketches of floor plans

H M L N b. Prepare site plans

H M L N c. Prepare floor plans with dimensions and notes

H M L N d. Prepare foundation plans with details

H M L N e. Prepare building and wall sections

H M L N f. Prepare elevations (exterior)

H M L N g. Prepare framing plans

H M L N h. Prepare door, window, and room finish schedules

H M L N i. Prepare title sheets

H M L N j. Prepare details of special construction

5. **Computer-Aided Drafting** (ACH 116 & ACH118) **AutoCAD only**

- H M L N a. Know the purpose of the menu; the components found in the drawing editor and the function of save, end and quit commands
- H M L N b. Apply the line command and the undo options
- H M L N c. Absolute, Relative & Polar coordinate system
- H M L N d. Apply the circle, arc, dragmode commands and the ellipse feature
- H M L N e. Apply the erase, redraw, and the oops commands
- H M L N f. Draw polygons of specific lengths and angles from the keyboard methods of entering lines
- H M L N g. Apply object snap and the aperture command
- H M L N h. Control certain features including printer echoing, coordinate display, and ortho
- H M L N i. Apply the grid and snap commands
- H M L N j. Apply the chamfer, break, and fillet commands
- H M L N k. Apply change, move, copy and mirror commands
- H M L N l. Create rectangular and circular arrays
- H M L N m. Apply the zoom and regen commands
- H M L N n. Apply the pan and view commands
- H M L N o. Apply the use of text, style and qtext commands
- H M L N p. Apply the use of units, limits, status, and prototype drawings
- H M L N q. Apply the layer options of color, linetype, freeze, and thaw and to practice setting linetype scale
- H M L N r. Apply dimensioning commands and options
- H M L N s. Hatch & Pline (Pedit) options
- H M L N t. Use basic Windows functions/commands
- H M L N u. Use Inquiry commands (ID, DIST, LIST)
- H M L N v. Create symbols using block
- H M L N w. Prepare copies of drawings using the PLOT command

6. **Identify CAD software used:** _____
and release: _____

PART II **HIGH SCHOOL PROGRAM INFORMATION**

Name of program: _____
 Industrial Arts or Vocational
Length of program: _____ (years)
Total instructional hours: _____
This student completed _____ hours or _____ years
Final grade for program _____

PART III **RELATED WORK EXPERIENCE**

1. The student has participated in a planned and approved program of:

- Community Exploration
- Cooperative Education
- Work Experience

2. The student was evaluated by the employer as being:

- Above Average
- Average
- Below Average

Employer: _____
(Name)

(Job Supervisor)

(Title)

PART IV **COMMENTS AND/OR CLARIFICATIONS**

(include any pertinent information or qualifications regarding skills, attitudes, etc.)

PART V **CERTIFICATION AND RECOMMENDATION**

I have reviewed the above competencies and believe , to the best of my knowledge, my assessment is fair and accurate. I recommend ____, recommend with qualifications ____, do not recommend ____, this student for advance placement.

(Name)

(Title)