

Student's Name/Initials

/

Date

Teacher's Initials

Date

ARCHITECTURAL DESIGN

DIRECTIONS: Evaluate the student using the applicable rating scales below and check the appropriate box to indicate the degree of competency. The ratings 3, 2, 1, and N are not intended to represent the traditional school grading system of A, B, C, and D. The description associated with each of the ratings focuses on the level of student performance or cognition for each of the competencies listed below.

PERFORMANCE RATING

- 3 - Skilled--can perform task independently with no supervision
 2 - Moderately skilled--can perform task completely with limited supervision
 1 - Limitedly skilled--requires instruction and close supervision
 N - No exposure--has no experience or knowledge of this task

COGNITIVE RATING

- 3 - Knowledgeable--can apply the concept to solve problems
 2 - Moderately knowledgeable--understands the concept
 1 - Limited knowledge--requires additional instruction
 N - No exposure--has not received instruction in this area

Unit A. Performing Work Safety Practices

3 2 1 N

- ___ ___ ___ 1. Apply safety policies and procedures.
 ___ ___ ___ 2. Maintain a clean, orderly, safe work area.
 ___ ___ ___ 3. Operate a fire extinguisher.

Unit B. Demonstrating Freehand Sketching Skills

3 2 1 N

- ___ ___ ___ 1. Sketch straight lines.
 ___ ___ ___ 2. Sketch circles and arcs.
 ___ ___ ___ 3. Sketch curved lines.
 ___ ___ ___ 4. Sketch multi-view drawings.
 ___ ___ ___ 5. Sketch pictorial drawings.
 ___ ___ ___ 6. Draw freehand technical lettering.
 ___ ___ ___ 7. Indicate overall dimensions.

Unit C. Demonstrating Basic Design Techniques (Standard And Metric)

3 2 1 N

- ___ ___ ___ 1. Select proper drawing equipment to complement the design media.
 ___ ___ ___ 2. Measure using standard scales/measuring devices.
 ___ ___ ___ 3. Draw straight lines and angles.
 ___ ___ ___ 4. Draw circles and arcs.
 ___ ___ ___ 5. Draw irregular curved lines.
 ___ ___ ___ 6. Demonstrate proper use, care, and adjustment of design equipment.
 ___ ___ ___ 7. Draw line symbols using alphabet of lines.
 ___ ___ ___ 8. Draw geometric figures using straight and curved lines.

- ___ ___ ___ 9. Draw borderlines and title block.
 ___ ___ ___ 10. Perform drawing setup to applicable standards (e.g., setting layers, line type, and width).
 ___ ___ ___ 11. Identify and use view and display commands (e.g., zoom, pan, viewports, and rotation).
 ___ ___ ___ 12. Format, enter, and edit text on a drawing.
 ___ ___ ___ 13. Edit, copy, and manipulate drawing entities (e.g., properties, stretch, trimming, and scaling).

Unit D. Demonstrating Preliminary Freehand Layout Skills

3 2 1 N

- ___ ___ ___ 1. Sketch preliminary floor plans.
 ___ ___ ___ 2. Sketch preliminary elevation views.
 ___ ___ ___ 3. Sketch preliminary sections.
 ___ ___ ___ 4. Hand-letter drawings (letters and numbers).

Unit E. Demonstrating Architectural Design Skills

3 2 1 N

- ___ ___ ___ 1. Draw floor plans.
 ___ ___ ___ 2. Draw foundation plans.
 ___ ___ ___ 3. Set and control dimensioning styles.
 ___ ___ ___ 4. Dimension various types of architectural plans and details.
 ___ ___ ___ 5. Prepare a window, door, and finish schedule.
 ___ ___ ___ 6. Draw exterior elevations.
 ___ ___ ___ 7. Draw interior elevations.
 ___ ___ ___ 8. Draw roof plans.
 ___ ___ ___ 9. Draw related architectural plans

- (e.g., mechanical, electrical, or civil).
 ___ ___ ___ 10. Draw foundation sections.
 ___ ___ ___ 11. Draw floor sections.
 ___ ___ ___ 12. Draw wall sections.
 ___ ___ ___ 13. Draw stair sections.
 ___ ___ ___ 14. Dimension section drawings.
 ___ ___ ___ 15. Locate section views on drawings.
 ___ ___ ___ 16. Create a site plan.
 ___ ___ ___ 17. Apply standard building codes to architectural plans.
 ___ ___ ___ 18. Prepare presentation drawings.

Unit F. Computer Literacy

Hardware

3 2 1 N

- ___ ___ ___ 1. Identify hardware components of a CAD computer system.

Operating System

3 2 1 N

- ___ ___ ___ 2. Format disks and copy, delete, rename, save, and back up files and folders.
 ___ ___ ___ 3. Identify, create, and use folders and directory structures.
 ___ ___ ___ 4. Identify various file formats (e.g., .wmf, .bmp, and .jpeg).
 ___ ___ ___ 5. Import and export data files between formats (e.g., IGES and DXF).
 ___ ___ ___ 6. Use software help features.

Unit G. Demonstrating Cad-Specific Skills

- | | | | | |
|---|---|---|---|---|
| 3 | 2 | 1 | N | |
| — | — | — | — | 1. Use the graphical user interface. |
| — | — | — | — | 2. Create, retrieve, edit, and use symbol libraries. |
| — | — | — | — | 3. Use inquiry commands to extract drawing data (list distance and area). |
| — | — | — | — | 4. Control entity properties. |
| — | — | — | — | 5. Plot/Print drawing to appropriate scale. |

Unit H. Demonstrating Basic Skills To Produce 3-D Drawings

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|---|---|---|---|---|
| 3 | 2 | 1 | N | |
| — | — | — | — | 1. Create 3-D architectural drawings. |
| — | — | — | — | 2. Create 3-D architectural renderings. |