

PROJECT ASSESSMENT: CAD APPLICATIONS

DES2030–1

Student: _____

Teacher: _____

Module: _____

Date: _____

CRITERIA	OBSERVATION/ RATING					STANDARD
Management	4	3	2	1	0	2
Teamwork	4	3	2	1	0 N/A	2
Content	4	3	2	1	0	1
Equipment and Materials	4	3	2	1	0	2

STANDARD IS 2 IN EACH APPLICABLE CRITERIA UNLESS OTHERWISE STATED.

Rating Scale

The student:

- 4 exceeds defined outcomes. Plans and solves problems effectively and creatively in a self-directed manner. Tools, materials and/or processes are selected and used efficiently, effectively and with confidence.
- 3 meets defined outcomes. Plans and solves problems in a self-directed manner. Tools, materials and/or processes are selected and used efficiently and effectively.
- 2 meets defined outcomes. Plans and solves problems with limited assistance. Tools, materials and/or processes are selected and used appropriately.
- 1 meets defined outcomes. Follows a guided plan of action. A limited range of tools, materials and/or processes are used appropriately.
- 0 has not completed defined outcomes. Tools, materials and/or processes are used inappropriately.

<p>CRITERIA</p> <p><i>The student:</i></p> <p>Management</p> <ul style="list-style-type: none"> <input type="checkbox"/> prepares self for task <input type="checkbox"/> organizes and works in an orderly manner <input type="checkbox"/> interprets and carries out instructions accurately <input type="checkbox"/> plans and uses time effectively <input type="checkbox"/> adheres to routine procedures <p>Teamwork</p> <ul style="list-style-type: none"> <input type="checkbox"/> cooperates with group members <input type="checkbox"/> shares work appropriately among group members <input type="checkbox"/> negotiates solutions to problems <input type="checkbox"/> exhibits basic teamwork skills (e.g., appropriate conduct, leadership, commitment, negotiation, sharing) 	<p>Content</p> <ul style="list-style-type: none"> <input type="checkbox"/> identifies and accesses commonly used CAD tools, methods and functions <input type="checkbox"/> reads and interprets pictorial drawings and multiview sketches for pertinent information <input type="checkbox"/> produces layered fully dimensioned multiview drawings <input type="checkbox"/> produces fully dimensioned pictorial drawings <input type="checkbox"/> produces fully dimensional surface developments <input type="checkbox"/> prints/plots drawings <input type="checkbox"/> selects and uses CAD tools, methods and functions to produce layered multiview drawings and pictorial drawings using pictorial sketches and/or three-dimensional objects for reference <p>Equipment and Materials</p> <ul style="list-style-type: none"> <input type="checkbox"/> selects and uses appropriate equipment/materials <input type="checkbox"/> models safe procedures/techniques <input type="checkbox"/> minimizes waste of materials <input type="checkbox"/> advises of potential hazards and necessary repairs
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<p>COMMENTS</p>

PROJECT ASSESSMENT: DRAFTING/DESIGN APPLICATIONS

DES2040-1

Student: _____

Teacher: _____

Module: _____

Date: _____

CRITERIA	OBSERVATION/ RATING					STANDARD
Management	4	3	2	1	0	2
Teamwork	4	3	2	1	0 N/A	2
Content	4	3	2	1	0	1
Equipment and Materials	4	3	2	1	0	2

STANDARD IS 2 IN EACH APPLICABLE CRITERIA UNLESS OTHERWISE STATED.

Rating Scale

The student:

- 4 exceeds defined outcomes. Plans and solves problems effectively and creatively in a self-directed manner. Tools, materials and/or processes are selected and used efficiently, effectively and with confidence.
- 3 meets defined outcomes. Plans and solves problems in a self-directed manner. Tools, materials and/or processes are selected and used efficiently and effectively.
- 2 meets defined outcomes. Plans and solves problems with limited assistance. Tools, materials and/or processes are selected and used appropriately.
- 1 meets defined outcomes. Follows a guided plan of action. A limited range of tools, materials and/or processes are used appropriately.
- 0 has not completed defined outcomes. Tools, materials and/or processes are used inappropriately.

<p>CRITERIA</p> <p><i>The student:</i></p> <p>Management</p> <ul style="list-style-type: none"> <input type="checkbox"/> prepares self for task <input type="checkbox"/> organizes and works in an orderly manner <input type="checkbox"/> interprets and carries out instructions accurately <input type="checkbox"/> plans and uses time effectively <input type="checkbox"/> adheres to routine procedures <p>Teamwork</p> <ul style="list-style-type: none"> <input type="checkbox"/> cooperates with group members <input type="checkbox"/> shares work appropriately among group members <input type="checkbox"/> negotiates solutions to problems <input type="checkbox"/> exhibits basic teamwork skills (e.g., appropriate conduct, leadership, commitment, negotiation, sharing) 	<p>Content</p> <ul style="list-style-type: none"> <input type="checkbox"/> demonstrates previously learned skills in pictorial drawing and/or in producing surface developments <input type="checkbox"/> produces an example of two of the following types of drawings based on design projects and describes their purpose and application: <ul style="list-style-type: none"> <input type="checkbox"/> assembly <input type="checkbox"/> sectional <input type="checkbox"/> auxiliary <input type="checkbox"/> produces one of the following: <ul style="list-style-type: none"> <input type="checkbox"/> dimensioned multiview drawing(s) <input type="checkbox"/> dimensioned surface development(s) <input type="checkbox"/> given a design brief, selects appropriate drawings types and styles and uses them to accurately illustrate potential design solutions <input type="checkbox"/> uses appropriate terminology <input type="checkbox"/> selects and uses appropriate tools and materials as outlined in design briefs <p>Equipment and Materials</p> <ul style="list-style-type: none"> <input type="checkbox"/> selects and uses appropriate equipment/materials <input type="checkbox"/> models safe procedures/techniques <input type="checkbox"/> minimizes waste of materials <input type="checkbox"/> advises of potential hazards and necessary repairs
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<p>COMMENTS</p>

PROJECT ASSESSMENT: TECHNICAL DRAWING APPLICATIONS

DES2050-1

Student: _____

Teacher: _____

Module: _____

Date: _____

CRITERIA	OBSERVATION/ RATING					STANDARD
Management	4	3	2	1	0	2
Teamwork	4	3	2	1	0 N/A	2
Content	4	3	2	1	0	1
Equipment and Materials	4	3	2	1	0	2

STANDARD IS 2 IN EACH APPLICABLE CRITERIA UNLESS OTHERWISE STATED.

Rating Scale

The student:

- 4 exceeds defined outcomes. Plans and solves problems effectively and creatively in a self-directed manner. Tools, materials and/or processes are selected and used efficiently, effectively and with confidence.
- 3 meets defined outcomes. Plans and solves problems in a self-directed manner. Tools, materials and/or processes are selected and used efficiently and effectively.
- 2 meets defined outcomes. Plans and solves problems with limited assistance. Tools, materials and/or processes are selected and used appropriately.
- 1 meets defined outcomes. Follows a guided plan of action. A limited range of tools, materials and/or processes are used appropriately.
- 0 has not completed defined outcomes. Tools, materials and/or processes are used inappropriately.

<p>CRITERIA</p> <p><i>The student:</i></p> <p>Management</p> <ul style="list-style-type: none"> <input type="checkbox"/> prepares self for task <input type="checkbox"/> organizes and works in an orderly manner <input type="checkbox"/> interprets and carries out instructions accurately <input type="checkbox"/> plans and uses time effectively <input type="checkbox"/> adheres to routine procedures <p>Teamwork</p> <ul style="list-style-type: none"> <input type="checkbox"/> cooperates with group members <input type="checkbox"/> shares work appropriately among group members <input type="checkbox"/> negotiates solutions to problems <input type="checkbox"/> exhibits basic teamwork skills (e.g., appropriate conduct, leadership, commitment, negotiation, sharing) 	<p>Content</p> <ul style="list-style-type: none"> <input type="checkbox"/> recognizes the need for specific types of drawings giving examples of their application <input type="checkbox"/> produces an example of each of the following types of drawings based on sketches provided: <ul style="list-style-type: none"> <input type="checkbox"/> multiview (minimum three views) <input type="checkbox"/> detail and/or assembly drawing <input type="checkbox"/> sectional and/or auxiliary drawing <input type="checkbox"/> exploded view and/or threaded fastener <input type="checkbox"/> accurately dimensions and notates each drawing <input type="checkbox"/> produces a pictorial drawing based on the multiview drawing produced <input type="checkbox"/> follows standard conventions as required for drawings produced <input type="checkbox"/> interprets standards and codes as they apply to drawings produced <input type="checkbox"/> uses appropriate terminology <p>Equipment and Materials</p> <ul style="list-style-type: none"> <input type="checkbox"/> selects and uses appropriate equipment/materials <input type="checkbox"/> models safe procedures/techniques <input type="checkbox"/> minimizes waste of materials <input type="checkbox"/> advises of potential hazards and necessary repairs
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<p>COMMENTS</p>

PROJECT ASSESSMENT: THE EVOLUTION OF DESIGN

DES2060–1

Student: _____

Teacher: _____

Module: _____

Date: _____

CRITERIA	OBSERVATION/ RATING					STANDARD
Management	4	3	2	1	0	2
Teamwork	4	3	2	1	0 N/A	2
Content	4	3	2	1	0	2
Equipment and Materials	4	3	2	1	0	2

STANDARD IS 2 IN EACH APPLICABLE CRITERIA UNLESS OTHERWISE STATED.

Rating Scale

The student:

- 4 exceeds defined outcomes. Plans and solves problems effectively and creatively in a self-directed manner. Tools, materials and/or processes are selected and used efficiently, effectively and with confidence.
- 3 meets defined outcomes. Plans and solves problems in a self-directed manner. Tools, materials and/or processes are selected and used efficiently and effectively.
- 2 meets defined outcomes. Plans and solves problems with limited assistance. Tools, materials and/or processes are selected and used appropriately.
- 1 meets defined outcomes. Follows a guided plan of action. A limited range of tools, materials and/or processes are used appropriately.
- 0 has not completed defined outcomes. Tools, materials and/or processes are used inappropriately.

<p>CRITERIA</p> <p><i>The student:</i></p> <p>Management</p> <ul style="list-style-type: none"> <input type="checkbox"/> prepares self for task <input type="checkbox"/> organizes and works in an orderly manner <input type="checkbox"/> interprets and carries out instructions accurately <input type="checkbox"/> plans and uses time effectively <input type="checkbox"/> adheres to routine procedures <p>Teamwork</p> <ul style="list-style-type: none"> <input type="checkbox"/> cooperates with group members <input type="checkbox"/> shares work appropriately among group members <input type="checkbox"/> negotiates solutions to problems <input type="checkbox"/> exhibits basic teamwork skills (e.g., appropriate conduct, leadership, commitment, negotiation, sharing) 	<p>Content</p> <ul style="list-style-type: none"> <input type="checkbox"/> conducts specified research in design <input type="checkbox"/> accesses a range of appropriate in-school/community resources <input type="checkbox"/> identifies and explains relationships between past and current designed solutions <input type="checkbox"/> identifies influences on the solution based on the following considerations: <ul style="list-style-type: none"> <input type="checkbox"/> cultural <input type="checkbox"/> global <input type="checkbox"/> ethical <input type="checkbox"/> environmental <input type="checkbox"/> presents research findings <input type="checkbox"/> uses tools, materials and other resources appropriate to the presentation <p>Equipment and Materials</p> <ul style="list-style-type: none"> <input type="checkbox"/> selects and uses appropriate equipment/materials <input type="checkbox"/> models safe procedures/techniques <input type="checkbox"/> minimizes waste of materials <input type="checkbox"/> advises of potential hazards and necessary repairs
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<p>COMMENTS</p>

PRESENTATIONS/REPORTS: THE EVOLUTION OF DESIGN

DES2060–2

Student: _____

Teacher: _____

Module: _____

Date: _____

CRITERIA	OBSERVATION/ RATING	STANDARD
Preparation and Planning	4 3 2 1 0	2
Teamwork	4 3 2 1 0 N/A	2
Content	4 3 2 1 0	1
Presenting/ Reporting	4 3 2 1 0	2

STANDARD IS 2 UNDER EACH APPLICABLE CRITERIA.

Rating Scale

The student:

- 4 exceeds defined outcomes. Plans and solves problems effectively and creatively in a self-directed manner. Tools, materials and/or processes are selected and used efficiently, effectively and with confidence.
- 3 meets defined outcomes. Plans and solves problems in a self-directed manner. Tools, materials and/or processes are selected and used efficiently and effectively.
- 2 meets defined outcomes. Plans and solves problems with limited assistance. Tools, materials and/or processes are selected and used appropriately.
- 1 meets defined outcomes. Follows a guided plan of action. A limited range of tools, materials and/or processes are used appropriately.
- 0 has not completed defined outcomes. Tools, materials and/or processes are used inappropriately.

<p>CRITERIA</p> <p><i>The student:</i></p> <p>Preparation and Planning</p> <ul style="list-style-type: none"> <input type="checkbox"/> sets goals for presentation <input type="checkbox"/> uses personal initiative to formulate questions and find answers <input type="checkbox"/> interprets, organizes and combines information into a logical sequence <input type="checkbox"/> plans and uses time effectively <p>Teamwork</p> <ul style="list-style-type: none"> <input type="checkbox"/> cooperates with group members <input type="checkbox"/> negotiates solutions to problems <input type="checkbox"/> shares work appropriately among group members <input type="checkbox"/> exhibits basic teamwork skills (e.g., appropriate conduct, leadership, commitment, negotiation, sharing) <p>Content</p> <ul style="list-style-type: none"> <input type="checkbox"/> presents/discusses interim findings <ul style="list-style-type: none"> <input type="checkbox"/> describes the area studied <input type="checkbox"/> presents interim findings <input type="checkbox"/> obtains feedback <input type="checkbox"/> incorporates feedback into project 	<p>Content (continued)</p> <ul style="list-style-type: none"> <input type="checkbox"/> prepares for and actively participates in final presentation and critique: <ul style="list-style-type: none"> <input type="checkbox"/> describe the area studied <input type="checkbox"/> present findings <input type="checkbox"/> submits final project for assessment <input type="checkbox"/> maintains and uses design journal/sketchbook to make notes (including research notes) <input type="checkbox"/> provides design journal to teacher as required <input type="checkbox"/> includes project and design journal in portfolio <p>Presenting/Reporting</p> <ul style="list-style-type: none"> <input type="checkbox"/> demonstrates effective use of at least two communication media (e.g., voice, visual) <input type="checkbox"/> maintains acceptable grammatical and technical standards through proofreading and editing <input type="checkbox"/> provides an introduction that describes the purpose and scope of the project <input type="checkbox"/> communicates ideas into a logical sequence with sufficient supporting detail <input type="checkbox"/> states a conclusion by synthesizing the information gathered <input type="checkbox"/> provides a reference list that includes two or more relevant information sources
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