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COMPUTER ASSISTED DRAWING AND DESIGN

(Year 11 D734)

Common Assessment Tasks

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Guidelines for the Common Assessment Tasks

Computer Assisted Drawing and Design (Year 11) - D734

This package contains the requirements for the five Common Assessment Tasks in Year 11 Computer Assisted Drawing and Design. The specific content of each task is to be determined by the school provider dependent upon the mode of delivery by the teacher.

Each task description is presented with the following headings:

1. Outcomes

The teacher has the flexibility to select from the Computer Assisted Drawing and Design outcomes those to be assessed in each task. On completion of the subject the student must have been provided with at least two opportunities to demonstrate achievement of each outcome.

2. Task

The task to be completed.

3. Task Description

The Task Description outlines what requirements are necessary for the students to complete the task. In most cases, it provides guidelines for the teacher to ensure that the major focus of the task has been understood.

4. Task Parameters

The Task Parameters determine the context and conditions in which the task is to be carried out.

5. Authentication

This section relates to the requirements of the student and the teacher in ensuring the task has been completed by the student. It is important that the teacher is able to authenticate all work completed for assessment by the student.

6. Performance Criteria

Each outcome is assessed against the Performance Criteria to determine the level of student achievement.

Record of Performance

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Student:

OUTCOME	Task 1	Task 2	Task 3	Task 4	Task 5	FINAL
Outcome 1 Uses a technology process to produce a computer assisted drafting solution to a design problem.						
Outcome 2 Explores employment issues relating to relevant drafting industries.						
Outcome 3 Demonstrates orthogonal computer assisted drafting skills.						
Outcome 4 Demonstrates pictorial computer assisted drafting skills.						
Outcome 5 Demonstrates freehand drafting skills and applications.						
Outcome 6 Applies computer assisted illustration and rendering techniques.						
Outcome 7 Applies computer assisted geometric drafting skills.						
FINAL GRADE						

Task 1:

Manufacturing

Curriculum Council requirements for this task are outlined below. Evidence must be provided to demonstrate student achievement of each of the selected outcomes.

Outcomes

The teacher has the flexibility to select from the Computer Assisted Drawing and Design outcomes those to be assessed in each task. On completion of the subject the student must have been provided with at least two opportunities to demonstrate achievement of each outcome.

Task

Produce a series of computer generated drawings of appropriate complexity to demonstrate an understanding of manufacturing drafting skills, techniques and terminology.

Task Description

This task requires that the student provide the following:

- a series of drawings demonstrating competent use of appropriate computer assisted drafting equipment
- evidence that the student understands and uses appropriate technical terminology

Task Parameters

This task can be presented in the following manner:

- the teacher presenting an appropriate subject of work to achieve the task objectives
- the teacher and student negotiating a topic to adequately demonstrate the task requirements
- the teacher setting a design problem to adequately cover the task objectives

Authentication

The following authentication procedure will apply:

- the teacher must guarantee that all student work submitted for assessment is their own
- the teacher must monitor the development of the student work to ensure that an adequate standard is attempted

Performance Criteria

Each outcome is assessed against the Performance Criteria to determine the level of student achievement.

Task 2:

Geometry

Curriculum Council requirements for this task are outlined below. Evidence must be provided to demonstrate student achievement of each of the selected outcomes.

Outcomes

The teacher has the flexibility to select from the Computer Assisted Drawing and Design outcomes those to be assessed in each task. On completion of the subject the student must have been provided with at least two opportunities to demonstrate achievement of each outcome.

Task

Produce a series of computer generated drawings that demonstrate an understanding of geometric drafting skills and applications.

Task Description

The task requires that the student provide the following:

- evidence of an ability to generate commonly used regular geometrical shapes
- evidence of an ability to apply computer generation construction techniques to graphic solutions
- evidence of an understanding of the construction and application of conic curves

Task Parameters

This task can be presented in the following manner:

- the teacher presenting a series of design problems that demonstrate the graphic concepts contained in this task
- the teacher presenting design problems that require the student to understand and apply computer assisted drafting geometry solutions in order to solve the problems
- the student demonstrating an understanding of required plane geometry computer assisted drafting techniques in conjunction with other areas of graphic communication

Authentication

The following authentication procedures will apply:

- the teacher must guarantee that all student work submitted for assessment is their own
- the teacher must monitor the development of the student work to ensure that an adequate standard is attempted
- the teacher must carefully assess plane geometry solutions that are part of other submitted graphic solutions

Performance Criteria

Each outcome is assessed against the Performance Criteria to determine the level of student achievement.

Task 3:

Pictorial

Curriculum Council requirements for this task are outlined below. Evidence must be provided to demonstrate student achievement of each of the selected outcomes.

Outcomes

The teacher has the flexibility to select from the Computer Assisted Drawing and Design outcomes those to be assessed in each task. On completion of the subject the student must have been provided with at least two opportunities to demonstrate achievement of each outcome.

Task

The student is to produce a series of computer generated drawings demonstrating pictorial drafting techniques using various systems and rendering applications.

Task Description

The task requires that the student provide the following:

- a series of computer generated drawings demonstrating computer assisted drafting pictorial techniques
- a series of computer generated drawings demonstrating computer assisted drafting systems appropriate to pictorial sketching
- demonstrating of computer assisted drafting rendering techniques appropriate to the information being presented

Task Parameters

This task can be presented in the following manner:

- the teacher presenting an appropriate subject of work to achieve the task requirements
- the teacher and student negotiating a topic to adequately demonstrate the task requirements

Authentication

The following authentication procedures will apply:

- the teacher must guarantee that all student work submitted for assessment is their own
- the teacher must monitor the development of the student work to ensure that an adequate standard is attempted
- any work which is not the students original work must be identified and it's source cited

Performance Criteria

Each outcome is assessed against the Performance Criteria to determine the level of student achievement.

Task 4:

Architectural

Curriculum Council requirements for this task are outlined below. Evidence must be provided to demonstrate student achievement of each of the selected outcomes.

Outcomes

The teacher has the flexibility to select from the Computer Assisted Drawing and Design outcomes those to be assessed in each task. On completion of the subject the student must have been provided with at least two opportunities to demonstrate achievement of each outcome.

Task

Produce a series of computer generated drawings that demonstrate an understanding and application of drafting information and presentation relevant to architectural communication.

Task Description

The task requires that the student provide the following:

- presentation of architectural information by a combination of computer generated drawing systems such as orthogonal, pictorial and geometric
- demonstration of computer generated rendering techniques relevant to architectural drawings
- demonstration of parts or all of a design process in the production of a computer generated solution

Task Parameters

This task can be presented in the following manner:

- the students undertaking a subject of work that will adequately achieve the unit requirements in this area
- the teacher prescribing an architectural design problem of suitable stature
- the teacher of student negotiating an architectural design problem to be solved by the student

Authentication

The following authentication procedures will apply:

- the teacher must guarantee that all student work submitted for assessment is their own
- the teacher must monitor the development of the student work to ensure that an adequate standard is attempted
- any work which is not the students original work must be identified and it's source cited

Performance Criteria

Each outcome is assessed against the Performance Criteria to determine the level of student achievement.

Task 5:

Research Design

Curriculum Council requirements for this task are outlined below. Evidence must be provided to demonstrate student achievement of each of the selected outcomes.

Outcomes

The teacher has the flexibility to select from the Computer Assisted Drawing and Design outcomes those to be assessed in each task. On completion of the subject the student must have been provided with at least two opportunities to demonstrate achievement of each outcome.

Task

The student is to produce a computer generated solution to a design problem.

Task Description

The task requires that the student provide the following:

- a design brief containing all the design elements in a computer generated solution to a design problem
- the design brief to contain adequate graphic information in resolving the design problem
- the graphic information of design brief to demonstrate an understanding of appropriate technical terminology and standards
- appropriate computer assisted drafting systems to be used in the graphic presentations

Task Parameters

This task can be presented in the following manner:

- the teacher selecting a suitable design problem for the students to resolve
- the teacher and student negotiating an appropriate design problem for the student to resolve
- the students working on individual or group design problems
- students must have access to relevant information to assist in their research for their design problem
- student should develop a time line for effective completion of this task

Authentication

The following authentication procedures will apply:

- the teacher must guarantee that all student work submitted for assessment is their own
- the teacher must monitor the development of the student work to ensure that an adequate standard is attempted
- in group design activities the teacher must monitor the level of participation of all group members

Performance Criteria

Each outcome is assessed against the Performance Criteria to determine the level of student achievement.

GRADING COMBINATIONS

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V	H	S	ND	GRADE
7	0	0	0	A
6	1	0	0	A
6	0	1	0	A
5	2	0	0	A
5	1	1	0	A
4	3	0	0	A
4	2	1	0	A

V	H	S	ND	GRADE
1	6	0	0	B
1	5	1	0	B
1	4	2	0	B
1	3	3	0	B
0	7	0	0	B
0	6	1	0	B
0	5	2	0	B
0	4	3	0	B

5	0	2	0	B
4	1	2	0	B
4	0	3	0	B
3	4	0	0	B
3	3	1	0	B
3	2	2	0	B
3	1	3	0	B
2	5	0	0	B
2	4	1	0	B
2	3	2	0	B
2	2	3	0	B

3	0	4	0	C
2	1	4	0	C
2	0	5	0	C
1	2	4	0	C
1	1	5	0	C
1	0	6	0	C
0	3	4	0	C
0	2	5	0	C
0	1	6	0	C
0	0	7	0	C

NOTE: A FINAL RATING OF “ND” FOR ANY OUTCOME WILL RESULT IN A GRADE OF “D” BEING AWARDED. WHERE THERE ARE MORE THAN 50% OF OUTCOMES WITH A FINAL RATING OF “ND” AN “E” GRADE IS AWARDED.