

270/4
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BUILDING AND CONSTRUCTION

(Year 12 E270)

Common Assessment Tasks

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Guidelines for the Common Assessment Tasks

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This package contains the requirements for the four Common Assessment Tasks in Year 12 Building and Construction. 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 Building and Construction 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 in 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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OUTCOME	Task 1	Task 2	Task 3	Task 4	FINAL
Outcome 1 Applies the technology process to solve teacher-initiated design problems.					
Outcome 2 Applies an understanding of pre-building procedures and practices.					
Outcome 3 Applies concreting skills using a variety of tools, equipment and processes.					
Outcome 4 Applies bricklaying and brick paving skills using a variety of tools, equipment and processes.					
Outcome 5 Applies building and construction skills with a variety of timber and hardware.					
Outcome 6 Applies welding skills using a variety of tools, equipment and processes.					
Outcome 7 Applies a range of mechanical skills using a variety of tools, equipment and processes.					
FINAL GRADE					

Task 1:

Construction

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 Building and Construction 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 in each outcome.

Task

Complete a range of practical and theoretical exercises incorporating a spectrum of construction materials and processes and techniques.

Task Description

The task requires that the student provide the following:

- a number of construction exercises which may form one project or be part of a set of smaller projects;
- written pre-building and planning procedures for a construction project;
- construction projects using a range of materials and building practices.

Task Parameters

This task can be presented in the following manner:

- Students may be involved in a building project around the school site, following planning and pre-building procedures and practices.
- Students should use bricklaying, brick paving, concreting and workshop skills in this task.
- Students may prepare a written submission for the project, following the research task and engineering standards.
- Students can work on a community project to meet the requirements of the task, as in a pergola erected by a group of students at the school or another community area.

Authentication

The following authentication procedures will apply:

- The teacher will monitor the students' progress.
- The teacher will require individual students to demonstrate correct handling and use of equipment and materials.
- All relevant documentation relating to practical exercises, design work, and research materials should be retained for authentication.

Performance Criteria

Each outcome is assessed against the performance criteria to determine the level of student achievement.

Task 2:

Building

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 Building and Construction 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 in each outcome.

Task

Complete a range of practical and theoretical exercises that demonstrates a knowledge of building industry processes.

Task Description

The task requires that the student provide the following:

- Students should complete a range of practical and theoretical activities based on building industry activities.
- Students should incorporate bricklaying, brick paving, concreting, carpentry and workshop skills.
- Students will present planning and written information on the exercises, to be completed following accepted planning practices.
- Students will describe careers, training and work roles in the building industry.

Task Parameters

This task can be presented in the following manner:

- Students may work as a team to complete a range of building exercises.
- Students may work as a team to build an extension to a current area of the school or a shed.
- Students may gain experience by working through a building project assisting professionals.
- Students will plan and follow up with approval procedures and practices.
- Students may be involved with glazing or fixing carpentry.

Authentication

The following authentication procedures will apply:

- The teacher will monitor the students' progress.
- The teacher will require individual students to demonstrate correct handling and use of equipment and materials.
- All relevant documentation relating to practical exercises, design work, and research materials should be retained for authentication.

Performance Criteria

Each outcome is assessed against the performance criteria to determine the level of student achievement.

Task 3:

Fabrication

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 Building and Construction 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 in each outcome.

Task

Complete a range of practical fabrication exercises that demonstrates knowledge of fabrication techniques and processes.

Task Description

This task requires that the students:

- manufacture articles or exercises which demonstrate competence in the correct and safe use of welding equipment, portable power tools and hand tools;
- design and plan the exercises or project;
- demonstrate and apply occupational health and safety work practices whilst using the above;
- demonstrate at least two forms of welding in the exercises or projects.

Task Parameters

This task can be presented in the following manner:

- Students could produce a project or range of skills exercises in fabrication.
- Students may combine this task with the construction or building task in fabricating shoes or brackets for a particular purpose.
- Students may be involved in erecting a shed and fabricating the required frame or door.
- Students may fabricate an individual project such as a set of car ramps or a weight bench.
- Students should be exposed to fabricating employment in the building industry.

Authentication

The following authentication procedure will apply:

- The teacher will monitor the students' progress.
- The teacher will require individual students to demonstrate correct handling and use of equipment and materials.
- All relevant documentation relating to practical exercises, design work, and research materials should be retained for authentication.

Performance Criteria

Each outcome is assessed against the performance criteria to determine the level of student achievement.

Task 4:

Systems

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 Building and Construction 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 in each outcome.

Task

Complete a range of practical exercises that demonstrates knowledge of engines, sub-systems and drive trains.

Task Description

The task requires that the students:

- follow set guidelines and instructions to appropriately complete tasks relating to engine technology;
- demonstrate competence and knowledge in the repair, adjustment and tuning of engines;
- adhere to occupational health and safety practices and procedures;
- demonstrate the correct application of relevant hand and diagnostic tools.

Task Parameters

This task can be presented in the following manner:

- The student should be able to trouble-shoot in a site situation eg when a generator or cement mixer that has stopped.
- Students should be able to demonstrate the transfer of fuel to power in relation to the building site including generators and compressors.
- Students should be aware of other powered tools including cut-off saws and nail guns, with particular attention to occupational health and safety and local laws on the use of this equipment.
- Students should complete exercises on the sub-systems of the mechanical parts of cement mixers, generators and compressors.

Authentication

The following authentication procedures will apply:

- The teacher will monitor the students' progress.
- The teacher will require individual students to demonstrate correct handling and use of equipment and materials.
- All relevant documentation relating to practical exercises, design work, and research materials should be retained for authentication.

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

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

V	H	S	ND	GRADE
2	2	3	0	B
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

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

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.