



**B O A R D O F S T U D I E S**  
NEW SOUTH WALES

## **2010 HSC Industrial Technology Graphics Technologies Marking Guidelines**

### **Section I**

<b>Question</b>	<b>Answer</b>
1	B
2	D
3	A
4	B
5	C
6	D
7	D
8	C
9	A
10	B

## Section II

### Question 11

Criteria	Marks
<ul style="list-style-type: none"><li>Recognises and names TWO advantages and TWO disadvantages of using CAD programs in the production of drawings</li></ul>	3
<ul style="list-style-type: none"><li>Recognises and names TWO advantages and ONE disadvantage of using CAD programs in the production of drawings</li></ul> OR <ul style="list-style-type: none"><li>Recognises and names ONE advantage and TWO disadvantages of using CAD programs in the production of drawings</li></ul>	2
<ul style="list-style-type: none"><li>Recognises and names ONE advantage and ONE disadvantage of using CAD programs in the production of drawings</li></ul> OR <ul style="list-style-type: none"><li>Recognises and names TWO advantages or TWO disadvantages of using CAD programs in the production of drawings</li></ul>	1

### Question 12

Criteria	Marks
<ul style="list-style-type: none"><li>Demonstrates a realistic three-dimensional rendering effect</li></ul>	2
<ul style="list-style-type: none"><li>Indicates a rendering technique but object is not realistic or three dimensional</li></ul>	1

**Question 13**

<b>Criteria</b>	<b>Marks</b>
• Sketches in general terms the processes used by the architectural firm to develop a design from concept to submission	3
• Lists several processes used by the architectural firm to develop a design from concept to submission (incomplete lists)	2
• Lists processes used to develop design (one or two only)	1

**Question 14**

<b>Criteria</b>	<b>Marks</b>
• Correctly sketches and locates a top, front and side view including hidden detail and dimensions	3
• Correctly sketches and locates a top, front and side view and includes hidden detail or dimensions	2
• Correctly sketches a top, front and side view	1

**Question 15**

<b>Criteria</b>	<b>Marks</b>
• Correctly sketches the machine block and locates and sketches the isometric circles and square holes	4
• Correctly sketches the machine block and locates the isometric circles and/or the square holes	3
• Sketches the machine block correctly but does not indicate the isometric circles and/or the square holes	2
• Demonstrates some understanding of isometric projection through some sketching of lines and/or circles	1

### Section III

#### Question 16 (a)

Criteria	Marks
• Sketches in general terms environmental factors which may impact on expansion	3
• Identifies environmental factors which may impact on expansion	2
• Identifies an environmental factor which may impact on expansion	1

#### Question 16 (b)

Criteria	Marks
• Analyses the relationships between the structural, technical and personnel issues that need to be considered prior to relocating	10–12
• Shows the relationship between structural and technical OR structural and personnel OR technical and personnel issues prior to relocating	7–9
• Provides features of structural and technical OR structural and personnel OR technical and personnel issues	4–6
• Outlines the structural or technical or personnel issues	1–3

# Industrial Technology

## Graphics Technologies

### 2010 HSC Examination Mapping Grid

Question	Marks	Content	Syllabus outcomes
<b>Section I</b>			
1	1	Processes – Pictorial Drawing	H1.2, H3.1
2	1	Principles/Standards	H1.1
3	1	Principles/Standards	H3.1
4	1	Processes – Architectural Drawing	H3.1
5	1	Principles/Standards	H1.2
6	1	Principles/Standards	H3.1
7	1	Principles/Standards	H1.2, H3.1
8	1	Principles – Architectural	H1.2, H3.1
9	1	Principles – Dimensions	H1.2, H3.1
10	1	Principles – first and third angle projection	H1.2, H3.1
<b>Section II</b>			
11	3	Equipment, Engineering, Product	H1.2, H6.1, H6.2
12	2	Processes – Presentation Techniques	H1.2, H3.1
13	3	Architectural Drawing	H1.1
14	3	Product Drawing/Standards	H1.2, H3.1
15	4	Isometric Drawing	H1.2, H3.1
<b>Section III</b>			
16 (a)	3	Environmental and Sociological considerations	H7.1, H1.1
16 (b)	12	Structural considerations, Technical considerations, Personnel considerations	H1.1, H7.1, H7.2