

2011 HSC Industrial Technology Metal and Engineering Technologies Marking Guidelines

Section I Multiple-choice Answer Key

Question	Answer
1	В
2	D
3	A
4	C
5	D
6	В
7	A
8	В
9	C
10	A



Section II

Question 11

Criteria	Marks
Indicates how the bolt could be produced with reference to head and thread	2
Indicates how the head OR thread of the bolt could be produced	1

Question 12

Criteria	Marks
Provides characteristics and features of all processes required to make the turned handle	3
Sketches in general terms some processes required to make the turned handle	2
• Lists TWO or more steps in the process of making the turned handle	1

Question 13

Criteria	Marks
Sketches a labelled jig that could be used to hold all components in place for welding	3
Sketches a suitable jig that could be used to hold all components in place for welding	2
Sketches a method that could be used to hold some components in place for welding	1

Question 14 (a)

Criteria	Marks
With the aid of a labelled sketch clearly indicates a suitable adjustable method of extending and securing the arm davit	3
With the aid of a sketch indicates a suitable method of extending or securing the arm of the davit	2
Sketches or indicates method of securing or extending the arm	1



Question 14 (b)

Criteria	Marks
• Determines the value of the materials and surface finishes that could be used to manufacture the davit for the marine environment	4
• Provides characteristics and features of materials and finishes that could be used to manufacture the davit for the marine environment	3
• Sketches in general terms materials and surface finishes that could be used to manufacture the davit	2
Lists TWO materials	
OR	
TWO surface finishes	1
OR	
• A material and a surface finish that could be used to manufacture the davit	

Section III

Question 15 (a)

Criteria	Marks
Provides characteristics and features of personnel issues the company needs to consider when staffing the new facility	5
• Sketches in general terms personnel issues the company needs to consider when staffing the new facility	3–4
Identifies personnel issues the company needs to consider when staffing the new facility	1–2

Question 15 (b)

Criteria	Marks
• Makes the relationships between the factors, other than personnel issues, that affect the viability of a company and the establishment of a facility in a new location evident	9–10
• Identifies factors, other than personnel issues, that affect the viability of a company and provides points for how they relate to the establishment of a facility in a new location	7–8
• Provides characteristics and features of factors, other than personnel issues, that would affect the viability of the company when establishing a facility in a new location	5–6
• Sketches in general terms the factors, other than personnel issues, that affect the viability of a company when establishing a facility in a new location	3–4
• Indicates features of factors, other than personnel issues, that affect the viability of a company when establishing a facility in a new location	1–2

Industrial Technology Metal and Engineering Technologies

2011 HSC Examination Mapping Grid

Section I

Question	Marks	Content	Syllabus outcomes
1	1	Materials	H1.2
2	1	Materials	H1.2
3	1	Processes tools and machinery	H2.1, H3.1
4	1	Processes tools and machinery	H2.1
5	1	Materials	H1.2
6	1	Materials	H3.2
7	1	Processes tools and machinery	H2.1
8	1	Processes tools and machinery	H2.1
9	1	Processes tools and machinery	H3.2
10	1	Materials	H3.2

Section II

Question	Marks	Content	Syllabus outcomes
11	2	Processes tools and machinery	H1.2
12	3	Processes tools and machinery	H3.1, H4.1
13	3	Processes tools and machinery	H2.1
14 (a)	3	Processes tools and machinery	H3.1
14 (b)	4	Materials	H6.2

Section III

Question	Marks	Content	Syllabus outcomes
15 (a)	5	Occupational health and safety	H1.1, H1.2
15 (b)	10	Occupational health and safety	H1.1, H1.2, H6.2, H7.1