



2012 HSC Industrial Technology Electronics Technologies Marking Guidelines

Section I

Multiple-choice Answer Key

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

Section II

Question 11

Criteria	Marks
• Shows by example an understanding of using computers in PCB design	2
• Provides ONE reason for using computers in PCB design	1

Question 12

Criteria	Marks
• All electronic components drawn as correct circuit symbols in a working circuit	3
• Working circuit with mostly correct symbols	2
• Some circuit symbols	1

Question 13

Criteria	Marks
• Provides features of correct operation of a movement switch and relates this to an appropriate application	3
• Provides a feature of correct operation and appropriate application	2
• Provides a feature of correct operation OR • Provides a feature of an appropriate application	1

Question 14

Criteria	Marks
• Complete explanation of how an oscilloscope is used in testing electronic circuits	3
• Some explanation of how an oscilloscope is used in testing	2
• A basic understanding of oscilloscopes	1

Question 15

Criteria	Marks
• Identifies issues and provides points for using computer software to simulate electronic circuits	4
• Identifies some reasons for using computer simulation software	2–3
• Identifies a reason for using computer simulation software	1

Section III

Question 16 (a)

Criteria	Marks
• Provides characteristics and features of web-based technologies the company could use to market and sell its goods and services	5
• Sketches in general terms web-based technologies the company could use to market and sell its goods and services	3–4
• Identifies a web-based technology that could be used	1–2

Question 16 (b)

Criteria	Marks
• Provides characteristics and features of TWO impacts on the organisation and work practices of the company if web-based technologies were implemented	9–10
• Provides characteristics and features of ONE impact and sketches in general terms another impact on the organisation and work practices of the company if web-based technologies were implemented	7–8
• Sketches in general terms ONE impact on the organisation and ONE impact on work practices of the company if web-based technologies were implemented	5–6
• Sketches in general terms ONE impact and identifies another impact on the organisation and work practices of the company if web-based technologies were implemented	3–4
• Identifies an organisational and/or work practices impact on the company if web-based technologies were implemented	1–2

Industrial Technology

Electronics Technologies

2012 HSC Examination Mapping Grid

Section I

Question	Marks	Content	Syllabus outcomes
1	1	Processes	H1.2
2	1	Electrical principles	H4.3
3	1	Electrical principles	H4.3
4	1	Electrical principles	H5.1
5	1	Electrical principles	H5.1
6	1	Circuitry	H3.2
7	1	Circuitry	H3.2
8	1	Electrical principles	H4.3
9	1	Processes	H3.2
10	1	Processes	H3.2, H4.3

Section II

Question	Marks	Content	Syllabus outcomes
11	2	Processes	H1.2, H6.2
12	3	Graphical communication	H5.1
13	3	Electrical principles	H4.3
14	3	Instruments and test equipment	H1.2, H6.2
15	4	Graphical communication	H5.1, H6.2

Section III

Question	Marks	Content	Syllabus outcomes
16 (a)	5	Structural consideration	H1.1, H1.2, H7.1, H7.2
16 (b)	10	Personnel issues	H1.1, H1.2, H7.1, H7.2