



**BOARD OF STUDIES**  
NEW SOUTH WALES

## **2012 HSC Industrial Technology Automotive Technologies Marking Guidelines**

### **Section I**

#### **Multiple-choice Answer Key**

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

## Section II

### Question 11

Criteria	Marks
• Identifies THREE parts	2
• Identifies TWO parts	1

### Question 12

Criteria	Marks
• Recognises and names a component and sketches in general terms why it is recycled or reused AND • Indicates the main features of recycling an automotive component	3
• Sketches in general terms a reason for recycling an automotive component	2
• Lists why a component is recycled or reused OR • Identifies a component	1

### Question 13

Criteria	Marks
• Sketches in general terms technologies that have improved motor vehicle occupant safety	3
• Sketches in general terms a technology that has improved occupant safety and identifies another technology	2
• Lists TWO technologies that have improved occupant safety	1

### Question 14

Criteria	Marks
• Provides characteristics and features of a process that could be used to determine why an engine is not turning over	3
• Sketches in general terms a process that could be used to determine why an engine is not turning over	2
• Provides a reason why an engine does not turn over	1

### Question 15

<b>Criteria</b>	<b>Marks</b>
• Determines the value of the use of LPG and makes a judgement as to the reasons it should be used	4
• Determines the value of using LPG and indicates a reason why it should be used	3
• Sketches in general terms advantages of using LPG in motor vehicles	2
• Lists an advantage of using LPG in motor vehicles	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

## Automotive Technologies

### 2012 HSC Examination Mapping Grid

#### Section I

Question	Marks	Content	Syllabus outcomes
1	1	Engine types	H3.2
2	1	Engine types	H1.2, H4.3
3	1	Wheels and tyres	H1.2, H4.3
4	1	Ignition systems	H1.2, H4.3
5	1	Cooling system	H4.3
6	1	Engine & related components	H4.3
7	1	Transmission	H4.3
8	1	Engine & related components	H4.3
9	1	Braking systems	H4.3
10	1	Energy types, fuel & lubricants	H3.2

#### Section II

Question	Marks	Content	Syllabus outcomes
11	2	Engine & related components	H1.2, H3.1
12	3	Environmental factor	H7.1
13	3	Automotive design	H7.2
14	3	Engine types, fuels & lubricants	H1.2, H4.3
15	4	Engine & related components	H3.2, H4.3

#### Section III

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