



BOARD OF STUDIES
NEW SOUTH WALES

2010 HSC Automotive Marking Guidelines

Section I

Question	Answer
1	B
2	B
3	C
4	A
5	D
6	D
7	A
8	C
9	C
10	B
11	D
12	D
13	A
14	C
15	C

Section II

Question 16

Criteria	Marks
<ul style="list-style-type: none">• Demonstrates a comprehensive understanding of how computer-based technologies can improve the efficiency within an automotive workshop• Provides cohesive examples that are industry specific• Develops a clear, well-reasoned response	5
<ul style="list-style-type: none">• Demonstrates a sound understanding of how computer-based technologies can improve the efficiency within an automotive workshop• Provides clear examples to support their answer	3-4
<ul style="list-style-type: none">• Demonstrates a basic understanding of how computer-based technologies can improve the efficiency within an automotive workshop• Provides limited examples	1-2

Question 17 (a)

Criteria	Marks
<ul style="list-style-type: none">• Demonstrates thorough knowledge of procedure to follow when an injury is sustained in the workplace• Addresses at least THREE key components	2
<ul style="list-style-type: none">• Demonstrates basic knowledge of procedure to follow when an injury is sustained in the workplace	1

Question 17 (b)

Criteria	Marks
• Correctly identifies an Australian Apprenticeship Centre (AAC)	1

Question 17 (c)

Criteria	Marks
• Demonstrates thorough knowledge of evacuation procedure and outlines a range of relevant elements	3
• Demonstrates basic knowledge of evacuation procedure and provides a number of elements that are relevant	2
• Demonstrates basic knowledge of evacuation procedure and provides limited examples of relevant elements	1

Question 18 (a)

Criteria	Marks
• Demonstrates a concise understanding of the hazards associated with raising a vehicle with a trolley jack • Correctly provides ALL required procedures for the safe raising of a vehicle • Provides correct references to industry terms, tools and equipment	4
• Demonstrates sound understanding of the hazards associated with raising a vehicle with a trolley jack • Correctly provides the majority of key steps required for the safe raising of a vehicle • Provides a number of references to industry terms, tools and equipment	3
• Demonstrates some understanding of the hazards associated with raising a vehicle with a trolley jack • Correctly identifies a number of key steps for the safe raising of a vehicle • Provides correct references to industry terms, tools and equipment	2
• Demonstrates a limited understanding of the hazards associated with raising a vehicle with a trolley jack • Identifies a limited number of correct steps for the safe raising of a vehicle • Provides little or no reference to industry terms, tools and equipment	1

Question 18 (b)

Criteria	Marks
<ul style="list-style-type: none">• Correctly states why fasteners are progressively tightened in a set sequence	1

Question 18 (c)

Criteria	Marks
<ul style="list-style-type: none">• Correctly identifies tool as torque wrench and provides a concise description of its purpose	2
<ul style="list-style-type: none">• Correctly identifies the tool but displays a limited understanding of the purpose• Correctly identifies the purpose but does not correctly specify its trade name	1

Question 19 (a)

Criteria	Marks
<ul style="list-style-type: none">• Correctly lists chemical composition of battery components	3

Question 19 (b)

Criteria	Marks
<ul style="list-style-type: none">• Correctly draws all required symbols	2
<ul style="list-style-type: none">• Correctly draws two symbols	1

Question 20 (a)

Criteria	Marks
<ul style="list-style-type: none">• Demonstrates a thorough understanding of how lightweight materials are used to improve vehicle efficiency• Correctly outlines THREE relevant lightweight materials and provides relevant examples of how they are used within the construction of a vehicle• Provides a clear, well-reasoned response	4
<ul style="list-style-type: none">• Demonstrates an understanding of how lightweight materials are used to improve vehicle efficiency• Correctly outlines TWO relevant lightweight materials and provides relevant examples of how they are used within the construction of a vehicle• Provides a clear response	2–3
<ul style="list-style-type: none">• Demonstrates limited understanding of how lightweight materials are used to improve vehicle efficiency• Correctly outlines ONE relevant lightweight material• Provides limited or no relevant examples of how lightweight materials are used within the construction of a vehicle	1

Question 20 (b)

Criteria	Marks
<ul style="list-style-type: none">• Provides correct answer as: Paint Code or demonstrates deep understanding of where the Paint Code is located	1

Question 20 (c)

Criteria	Marks
<ul style="list-style-type: none">• Provides correct answer as any of the following: Supplementary Restraint System (SRS) or Air bag and/or Pre-tensioned seat belts	1

Question 21 (a)

Criteria	Marks
<ul style="list-style-type: none">• Demonstrates a thorough understanding of the effects the suspension damage will have on various components as well as the vehicle geometry• Provides correct reference to industry terms and provides accurate examples• Develops a clear, well-structured response	4
<ul style="list-style-type: none">• Demonstrates an understanding of the effects the suspension damage will have on a range of components as well as the vehicle geometry• Provides some reference to industry terms and provides a number of examples	2–3
<ul style="list-style-type: none">• Demonstrates a limited understanding of the effects the suspension damage will have on the vehicle• Correctly names at least ONE component correctly• Provides limited reference to industry terms	1

Question 21 (b)

Criteria	Marks
<ul style="list-style-type: none">• States at least one fix and one suitable method to manage problem	2
<ul style="list-style-type: none">• Identifies how the problem can be rectified but does not say how it can be managed (or vice versa)	1

Section III

Question 22

Criteria	Marks
<ul style="list-style-type: none">• Demonstrates a broad depth of knowledge and understanding of employees' responsibilities within the automotive industry• Provides an extensive explanation of how employees can ensure their compliance with the OHS Act• Correctly uses precise industry terminology and examples within the context of the automotive industry• Develops a well-structured cohesive response	13–15
<ul style="list-style-type: none">• Demonstrates a clear knowledge and understanding of employees' responsibilities within the automotive industry• Provides a clear explanation of how employees can ensure their compliance with the OHS Act• Uses specific industry terminology and examples within the context of the automotive industry• Develops a well-structured response	10–12
<ul style="list-style-type: none">• Demonstrates a general understanding of employees' responsibilities within the automotive industry• Provides a general explanation of how employees can ensure their compliance with the OHS Act• Uses appropriate industry terminology	7–9
<ul style="list-style-type: none">• Demonstrates an understanding of employees' responsibilities• Provides some links to how employees can ensure their compliance with the OHS Act• Uses limited or basic industry terminology	4–6
<ul style="list-style-type: none">• Demonstrates a limited understanding of employees' responsibilities• Provides limited examples of how employees can ensure their compliance with the OHS Act• Communicates using non-industry specific terms	1–3

Section IV**Question 23 (a)**

Criteria	Marks
<ul style="list-style-type: none">• Demonstrates a concise knowledge and understanding of the responsibilities of various government authorities• Uses precise industry terminology• Provides examples within the context of the automotive industry• Develops a well-structured cohesive response	5
<ul style="list-style-type: none">• Demonstrates a sound understanding of the responsibilities of government authorities• Uses industry terminology• Provides examples within the context of the automotive industry	3–4
<ul style="list-style-type: none">• Demonstrates a basic knowledge and understanding of the responsibilities of government authorities• Uses limited or basic industry terminology	1–2

Question 23 (b)

Criteria	Marks
<ul style="list-style-type: none"> • Demonstrates a broad depth of knowledge of the management of environmental issues within the automotive industry • Provides an extensive and accurate explanation of how to deal with THREE environmental issues • Correctly uses precise industry terminology and provides examples within the context of the automotive industry • Develops a well-structured cohesive response 	9–10
<ul style="list-style-type: none"> • Demonstrates clear knowledge of the management of environmental issues within the automotive industry • Provides an accurate explanation of how to deal with THREE environmental issues • Correctly uses specific industry terminology and provides examples within the context of the automotive industry • Develops a well-structured response 	7–8
<ul style="list-style-type: none"> • Demonstrates a general understanding of the management of environmental issues within the automotive industry • Provides a general explanation of how to deal with a minimum of TWO environmental issues • Uses appropriate industry terminology 	5–6
<ul style="list-style-type: none"> • Demonstrates an understanding of the management of environmental issues within the automotive industry • Provides some relevant examples of how to deal with TWO environmental issues • Uses limited or basic industry terminology 	3–4
<ul style="list-style-type: none"> • Demonstrates a limited understanding of the management of environmental issues within the automotive industry • Provides limited examples of how to deal with at least ONE environmental issue • Communicates using non-industry specific terms 	1–2

Automotive

2010 HSC Examination Mapping Grid

Question	Marks	Unit of competency / Element of competency
Section I		
1	1	AURC270103A Apply safe working practices
2	1	AURT270278A Use and maintain workplace tools and equipment
3	1	Automotive systems and components
4	1	AURT270278A Use and maintain workplace tools and equipment
5	1	Automotive systems and components
6	1	Automotive systems and components
7	1	AURC272003A Apply environmental regulations and best practice in a workplace or business
8	1	AURC272003A Apply environmental regulations and best practice in a workplace or business
9	1	AURC270103A Apply safe working practices
10	1	Automotive industry induction
11	1	AURC272003A Apply environmental regulations and best practice in a workplace or business
12	1	AURC270789A Communicate effectively in the workplace
13	1	Automotive industry induction
14	1	AURC270103A Apply safe working practices
15	1	AURC252103A Apply basic automotive troubleshooting processes
Section II		
16	5	AURC270789A Communicate effectively in the workplace
17 (a)	2	Automotive industry induction
17 (b)	1	Automotive industry induction
17 (c)	3	Automotive industry induction
18 (a)	4	AURT270278A Use and maintain workplace tools and equipment
18 (b)	1	AURT270278A Use and maintain workplace tools and equipment
18 (c)	2	AURT270278A Use and maintain workplace tools and equipment
19 (a)	3	AURE218670A Service, maintain or replace batteries
19 (b)	2	AURE218708A Carry out repairs to single electrical circuits
20 (a)	4	Automotive systems and components
20 (b)	1	Automotive systems and components
20 (c)	1	Automotive systems and components AURE218708A Carry out repairs to single electrical circuits
21 (a)	4	AURC252103A Apply basic automotive troubleshooting processes
21 (b)	2	AURC252103A Apply basic automotive troubleshooting processes
Section III		
22	15	AURC270103A Apply safe working practices Automotive industry induction
Section IV		
23	15	AURC272003A Apply environmental regulations and best practice in a workplace or business AURC270103A Apply safe working practices