



BOARD OF STUDIES
NEW SOUTH WALES

2012 HSC Automotive Marking Guidelines

Section I

Multiple-choice Answer Key

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

Section II

Question 16

Criteria	Marks
<ul style="list-style-type: none">• Correctly identifies tools A & B and provides comprehensive examples of their use in the automotive trade• Uses correct and appropriate industry terminology	4
<ul style="list-style-type: none">• Correctly identifies tools A & B and provides limited examples of their use in the automotive trade• Uses mostly appropriate industry terminology	2–3
<ul style="list-style-type: none">• Correctly identifies one of the tools A or B and provides limited examples of their use in the automotive trade• Uses basic industry terminology	1

Question 17

Criteria	Marks
<ul style="list-style-type: none"> Provides a comprehensive response on battery testing procedure using specific industry terminology Identifies all tools and equipment needed 	4–5
<ul style="list-style-type: none"> Provides a sound response on battery testing procedure using basic industry terminology Identifies a range of tools and equipment needed 	2–3
<ul style="list-style-type: none"> Provides a limited response on battery testing procedure Includes some tools and equipment needed 	1

Question 18 (a)

Criteria	Marks
<ul style="list-style-type: none"> Correctly identifies four or more components 	2
<ul style="list-style-type: none"> Correctly identifies two to three components 	1

Question 18 (b)

Criteria	Marks
<ul style="list-style-type: none"> Accurately explains how the clutch engages and disengages the engine and the gearbox Provides a comprehensive response using industry-specific terminology 	3
<ul style="list-style-type: none"> Explains with some accuracy how the clutch engages and disengages the engine and the gearbox Provides a relevant response using some industry terminology 	2
<ul style="list-style-type: none"> Provides a basic understanding of how a clutch engages or disengages the engine and the gearbox Uses limited industry terminology 	1

Question 18 (c)

Criteria	Marks
<ul style="list-style-type: none"> Identifies all system components Provides a comprehensive explanation of the operation of a hydraulic braking system 	4–5
<ul style="list-style-type: none"> Identifies some system components Provides a sound explanation of the operation of a hydraulic braking system 	2–3
<ul style="list-style-type: none"> Identifies limited system components Provides a limited explanation of the operation of a hydraulic braking system 	1

Question 19 (a)

Criteria	Marks
• Correctly names the drive belt	1

Question 19 (b)

Criteria	Marks
• Correctly identifies at least three or more driven components	3
• Correctly identifies two driven components	2
• Correctly identifies one driven component	1

Question 19 (c)

Criteria	Marks
• Accurately outlines a logical process to locate the cause and location of the noise using correct tools and industry practice	3
• Outlines, with some accuracy, a process to locate the cause and location of the noise	2
• Provides parts of the process used to identify the cause of the noise	1

Question 20

Criteria	Marks
<ul style="list-style-type: none">• Demonstrates detailed understanding of how automotive waste should be sorted, stored and disposed of• Uses full trade-accepted methods of storage of automotive waste	4–5
<ul style="list-style-type: none">• Demonstrates sound understanding of how automotive waste is sorted, stored or disposed of• Uses appropriate industry methods of storage of automotive waste	2–3
<ul style="list-style-type: none">• Demonstrates a basic understanding of how automotive waste is sorted and/or stored and/or disposed of	1

Question 21

Criteria	Marks
• Demonstrates a detailed understanding of workers' skill development for career expansion	4
• Demonstrates a sound understanding of workers' skill development for career expansion	3
• Demonstrates a limited understanding of workers' skill development for career expansion	2
• Demonstrates a basic understanding of workers' skill development for career expansion	1

Section III

Question 22

Criteria	Marks
<ul style="list-style-type: none">• Identifies an extensive range of automotive safety systems• Demonstrates a comprehensive understanding of how safety systems are used• Communicates ideas and information in a well-reasoned, cohesive response• Uses precise industry terminology and examples within the context of the automotive industry	13–15
<ul style="list-style-type: none">• Identifies a broad range of automotive safety systems• Demonstrates a detailed understanding of how safety systems are used• Communicates ideas and information in a logical response• Uses appropriate industry terminology with some examples related to the automotive industry	10–12
<ul style="list-style-type: none">• Identifies a range of automotive safety systems• Demonstrates a sound understanding of how safety systems are used• Communicates ideas and information in a sound response• Uses appropriate industry terminology	7–9
<ul style="list-style-type: none">• Provides examples of basic automotive safety systems• Demonstrates a basic understanding of how safety systems are used• Communicates some ideas and information• Uses basic industry terminology	4–6
<ul style="list-style-type: none">• Demonstrates a limited understanding of how safety systems are used• Uses limited industry terminology	1–3

Section IV

Question 23 (a)

Criteria	Marks
<ul style="list-style-type: none">Provides a broad range of work practices that will need to be improvedProvides a strong link between improvements and a safe working environmentUses appropriate industry terminology	4–5
<ul style="list-style-type: none">Provides a range of work practices that will need to be improvedProvides a link between improvements and a safe working environmentUses some appropriate industry terminology	2–3
<ul style="list-style-type: none">Provides general information	1

Question 23 (b)

Criteria	Marks
<ul style="list-style-type: none">Provides a comprehensive explanation of the effect of best work practices on both business profitability and service to clients, and the environmentCommunicates ideas and information in a well-reasoned cohesive responseCorrectly uses precise industry terminology	8–10
<ul style="list-style-type: none">Provides a detailed explanation of the effect of best work practices on both business profitability, and service to clients, and the environmentCommunicates ideas and information in a logical responseUses appropriate industry terminology	6–7
<ul style="list-style-type: none">Provides a sound explanation of the effect of best work practicesCommunicates some ideas and information using appropriate languageUses basic industry terminology	4–5
<ul style="list-style-type: none">Provides a limited explanation of the effect of best work practicesUses limited industry terminology	1–3

Automotive

2012 HSC Examination Mapping Grid

Section I

Question	Marks	Unit of competency/Element of competency	Employability skills (Please put an X where appropriate)							
			Communication	Teamwork	Problem-solving	Initiative and enterprise	Planning and organising	Self-management	Learning	Technology
1	1	AURC270103A – Apply safe working practices pg 34			X					
2	1	Automotive industry induction pg 11					X			
3	1	AURT270278A – Use and maintain workplace tools and equipment pg 87								X
4	1	AURE218670A – Service, maintain or replace batteries pg 64							X	
5	1	Automotive systems and components pg 19							X	X
6	1	AURC270789A – Communicate effectively in the workplace pg 55	X		X					
7	1	Automotive industry induction pg 17	X						X	
8	1	AURT270278A – Use and maintain workplace tools and equipment pg 87							X	
9	1	Automotive systems and components pg 21							X	X
10	1	AURC270103A – Apply safe working practices pg 34							X	X
11	1	Automotive systems and components AURC270789A – Communicate effectively in the workplace	X							X
12	1	AURE218670A – Service, maintain or replace batteries pg 24 AURT270278A – Use and maintain workplace tools and equipment pg 24								X
13	1	AURC272003A – Apply environmental regulations and best practice in a workplace or business pg 98	X						X	
14	1	AURE218708A – Carry out repairs to single electrical circuits pg 74							X	X

Question	Marks	Unit of competency/Element of competency	Employability skills (Please put an X where appropriate)							
			Communication	Teamwork	Problem-solving	Initiative and enterprise	Planning and organising	Self-management	Learning	Technology
15	1	AURC252103A – Apply basic automotive troubleshooting processes pg 25			X					X

Section II

Question	Marks	Unit of competency/Element of competency	Employability skills (Please put an X where appropriate)							
			Communication	Teamwork	Problem-solving	Initiative and enterprise	Planning and organising	Self-management	Learning	Technology
16	4	AURT270278A – Use and maintain workplace tools and equipment pg 87		X						X
17	5	AURE218670A – Service, maintain or replace batteries pg 63		X						X
18 (a)	2	Automotive systems and components pg 21							X	X
18 (b)	3	Automotive systems and components pg 21							X	X
18 (c)	5	Automotive systems and components pg 19							X	X
19 (a)	1	Automotive systems and components pg 21							X	X
19 (b)	3	Automotive systems and components pg 21-22							X	X
19 (c)	3	AURC252103A – Apply basic automotive troubleshooting processes pg 25			X	X			X	X
20	5	AURC272003A – Apply environmental regulations and best practice in a workplace or business pg 98-99							X	
21	4	Automotive industry induction pg 15	X					X	X	

Section III

Question	Marks	Unit of competency/Element of competency	Employability skills (Please put an X where appropriate)						
			Communication	Teamwork	Problem-solving	Initiative and enterprise	Planning and organising	Self-management	Learning
22	15	Automotive systems and components pg 19-22	X		X	X			X

Section IV

Question	Marks	Unit of competency/Element of competency	Employability skills (Please put an X where appropriate)						
			Communication	Teamwork	Problem-solving	Initiative and enterprise	Planning and organising	Self-management	Learning
23 (a)	5	AURC270789A – Communicate effectively in the workplace pg 53			X				
23 (b)	10	AURC270103A – Apply safe working practices pg 36 AURC272003A – Apply environmental regulations and best practice in a workplace or business pg 98, 101, 103, 104-105	X				X		X