

2011 HSC Automotive Marking Guidelines

Section I

Multiple-choice Answer Key

Question	Answer
1	D
2	D
3	В
4	В
5	А
6	В
7	С
8	А
9	С
10	С
11	В
12	D or B
13	С
14	С
15	В

Section II

Question 16 (a)

Criteria	Marks
Identifies ALL components correctly	3
Identifies at least THREE components correctly	2
Identifies at least TWO components correctly	1

Question 16 (b)

Criteria	Marks
• Names the correct operating cycles using precise industry terminology	
• Demonstrates a comprehensive understanding of the cycles and the role within the engine's operation	4–5
Provides examples of components using correct terminology	
Names the correct operating cycles	
• Demonstrates a basic understanding of the operating cycles	2–3
Identifies some components utilising correct terms	
Names some of the cycles correctly	1
Demonstrates an elementary understanding of the operating cycles	

Question 17 (a)

Criteria	Marks
Correctly identifies the saw blade teeth direction	1

Question 17 (b)

Criteria	Marks
• Provides a thorough explanation of the suitable repair procedure using precise industry specific terminology	2
• Demonstrates a detailed understanding of thread repair	3
Correctly identifies tools and equipment used	
• Provides a suitable explanation of a repair procedure using some industry specific terminology	
• Demonstrates an understanding of thread repair	2
• Identifies some examples of tools and equipment used	
Provides a limited explanation of repair procedure	1
Communicates using non-industry specific terms	1

Question 17 (c) (i)

Criteria	Marks
Correctly names the device shown	1

Question 17 (c) (ii)

Criteria	Marks
Identifies THREE correct dimensions	3
Identifies TWO correct dimensions	2
Identifies ONE correct dimensions	1

Question 17 (c) (iii)

Criteria	Marks
• The correct reading is indicated plus or minus 0.04 tolerance accepted	1

Question 18 (a)

Criteria	Marks
Identifies the hazardous gas	2
Clearly identifies suitable precautions to be followed	Z
• Either identifies the hazardous gas OR identifies suitable precautions to be followed	1

Question 18 (b)

Criteria	Marks
Identifies correct polarity	2
Indicates correct sequence	2
Identifies correct polarity	1
Incorrect sequence is included	1



Question 18 (c)

Criteria	Marks
Uses precise industry specific terminology	
Provides a concise description of suitable steps	3
Identifies suitable tools and repair techniques	
Uses industry specific terminology	
Identifies suitable steps for the repair	2
• Identifies some appropriate tools used for the repair	
Uses non-industry specific terms	1
• Demonstrates a superficial understanding of the repair techniques	

Question 19 (a)

Criteria	Marks
• Demonstrates a sound understanding of the design of a bunded area	2
Uses industry specific terminology	Z
• Demonstrates a basic understanding of the design of a bunded area	1

Question 19 (b)

Criteria	Marks
• Demonstrates a thorough understanding of the suitable methods of storage within a bunded area	3
Uses precise industry specific terminology	
• Demonstrates a basic understanding of the suitable methods of storage within a bunded area	2
Uses some industry specific terms	
• Demonstrates a limited understanding of storage methods within a bunded area	1
Uses inappropriate or non-industry specific terms	

Question 20 (a)

Criteria	Marks
Correctly identifies the source of information	1

Question 20 (b)

Criteria	Marks
• Provides a suitable procedure to deal with the damaged tool	1



Question 20 (c)

Criteria	Marks
• Provides a comprehensive explanation of the correct lifting procedure	
Uses precise industry specific terminology	3–4
• Demonstrates clear awareness of the potential safety concerns when using a hoist	J- 1
Provides some basic steps for safely raising the vehicle	1–2
Uses limited industry specific terms	1-2

Section III

Question 21

Criteria	Marks
• Demonstrates in-depth knowledge and understanding of the trouble- shooting processes required for sound diagnosis	10, 15
Provides precise industry specific examples and associated terminology	13–15
• Develops a well-reasoned cohesive response relating cause and effect	
• Demonstrates detailed knowledge and understanding of the trouble-shooting processes required for sound diagnosis	
• Provides specific industry terminology and uses suitable industry related examples	10–12
Develops a well-reasoned response relating cause and effect	
• Demonstrates a general understanding of the trouble-shooting processes required for sound diagnosis	-
Provides sound examples using industry terminology	7–9
Provides a descriptive response	
Demonstrates an understanding of some diagnosis trouble-shooting processes	4 6
• May provide limited examples using basic industry terminology	4–6
Develops a general response	
Demonstrates limited understanding of trouble-shooting processes	1–3
Communicates using non-industry specific terms	1–3



Section IV

Question 22 (a)

Criteria	Marks
• Develops a detailed comparison of the advantages and disadvantages between both systems	4–5
Correctly uses precise industry specific terminology	
• Demonstrates understanding of the advantages and disadvantages between both systems	2–3
Communicates using industry terminology	
• Demonstrates an elementary understanding of both systems	1
Communicates using non-industry specific terms	

Question 22 (b)

Criteria	Marks
• Clearly demonstrates an understanding of the benefits to environmental sustainability	
• Demonstrates a thorough understanding of the operation of hybrid vehicles	8–10
Provides precise industry specific examples using correct terminology	
Develops a logical and concise response	
• Demonstrates an understanding of the benefits to environmental sustainability	
• Demonstrates some understanding of the operation of hybrid vehicles	5–7
Provides examples using suitable industry terminology	5-7
Develops a descriptive response	
• Demonstrates a basic understanding of the benefits to environmental sustainability	
• Demonstrates limited understanding of the operation of hybrid vehicles	2–4
Uses basic industry terminology	
• Demonstrates a limited understanding of the benefits to environmental sustainability	1
Demonstrates a superficial understanding of hybrid vehicles	1
Uses non-industry specific terminology	

Automotive

2011 HSC Examination Mapping Grid

Section I

Question	Marks	Unit of competency/Element of competency
1	1	AURC270103A – Apply safe working practices
2	1	AURC272003A – Apply environmental regulations and best practice in a workplace or business
3	3 1	AURC270789A – Communicate effectively in the workplace
5	1	Automotive systems and components
4	1	Automotive industry induction
5	1	AURT270278A – Use and maintain workplace tools and equipment
6	1	AURE218708A – Carry out repairs to single electrical circuits
7	1	AURC272003A – Apply environmental regulations and best practice in a workplace or business
8	1	AURC270103A – Apply safe working practices
9	1	AURT270278A – Use and maintain workplace tools and equipment
10	1	AURC252103A – Apply basic automotive troubleshooting processes
11	1	AURC270789A – Communicate effectively in the workplace
11	1	AURC252103A – Apply basic automotive troubleshooting processes
12	1	AURE218708A – Carry out repairs to single electrical circuits
13	1	Automotive systems and components P.94
14	1	Automotive systems and components
14	1	AURT270278A – Use and maintain workplace tools and equipment P.94
15	1	AURC252103A – Apply basic automotive troubleshooting processes
15	1	AURE218670A – Service, maintain or replace batteries

Section II

Question	Marks	Unit of competency/Element of competency
16 (a)	3	Automotive systems and components
16 (b)	5	Automotive systems and components
17 (a)	1	AURT270278A – Use and maintain workplace tools and equipment
17 (b)	3	AURT270278A – Use and maintain workplace tools and equipment P.90 Linked to P.94
17 (c) (i)	1	AURT270278A – Use and maintain workplace tools and equipment
17 (c) (ii)	3	AURT270278A – Use and maintain workplace tools and equipment
17 (c) (iii)	1	AURT270278A – Use and maintain workplace tools and equipment
18 (a)	2	AURE218670A – Service, maintain or replace batteries
18 (b)	2	AURT270278A – Use and maintain workplace tools and equipment
18 (c)	3	AURE218708A – Carry out repairs to single electrical circuits
19 (a)	2	AURC272003A – Apply environmental regulations and best practice in a workplace or business
19 (b)	3	AURC272003A – Apply environmental regulations and best practice in a workplace or business
20 (a)	1	AURC270103A – Apply safe working practices
20 (b)	1	AURC270103A – Apply safe working practices
20 (c)	4	AURC270103A – Apply safe working practices

Section III

Question	Marks	Unit of competency/Element of competency
		Automotive industry induction
21	15	AURC270789A – Communicate effectively in the workplace
		AURC252103A – Apply basic automotive troubleshooting processes

Section IV

Question	Marks	Unit of competency/Element of competency
22 (a)	5	Automotive systems and components
22 (b)	10	Automotive systems and components AURC272003A – Apply environmental regulations and best practice in a
		workplace or business