



Stage 6 Syllabus

AUTOMOTIVE

Curriculum Framework

Part B

Units of Competency and HSC Requirements

for implementation from 2008

Automotive (120 indicative hours)

Automotive (240 indicative hours)

Automotive School-based Apprenticeship (240 indicative hours)

2007

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The Automotive Curriculum Framework

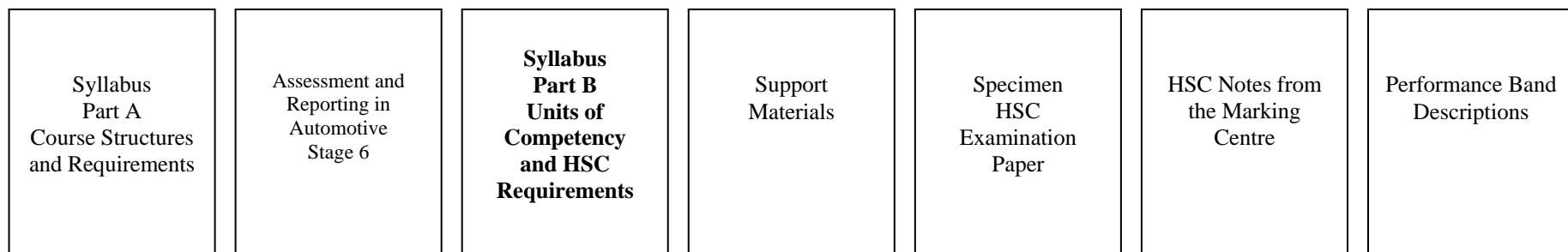
The Automotive Curriculum Framework has been developed to provide students with the opportunity to gain credit towards the NSW Higher School Certificate and credit towards national vocational qualifications in the automotive industry under the Australian Qualifications Framework. The Framework is based on the national Automotive Industry Retail, Service and Repair Training Package (AUR05).

This Industry Curriculum Framework incorporates all Higher School Certificate Automotive VET courses including:

- courses delivered by schools
- courses delivered by TAFE colleges
- courses delivered by other Registered Training Organisations on behalf of schools or TAFE colleges.

This document, Part B of the *Automotive Curriculum Framework Stage 6 Syllabus*, contains the text of the units of competency from the Automotive Industry Retail, Service and Repair Training Package (AUR05). Each examinable unit of competency is accompanied by HSC requirements and advice. The HSC requirements and advice column indicates the depth of study required for the purposes of the HSC. The terms, concepts and content contained in that column must be included in programming and delivery for the HSC.

Automotive Curriculum Framework Stage 6 Syllabus Documentation



Automotive Curriculum Framework – Units of Competency contained in Part B

This document contains the following units of competency together with HSC requirements and advice for each examinable unit. The HSC requirements and advice column indicates the depth of study required for the purposes of the HSC. The terms, concepts and content contained in that column must be included in programming and delivery for the HSC.

Unit code	Unit title	HSC indicative hours of credit	Page numbers
N/A	Automotive industry induction	15	11–18
N/A	Automotive systems and components	25	19–24
AURC252103A	Apply basic automotive troubleshooting processes	20	25–32
AURC270103A	Apply safe working practices	20	33–49
AURC270789A	Communicate effectively in the workplace	10	50–62
AURE218670A	Service, maintain or replace batteries	5	63–73
AURE218708A	Carry out repairs to single electrical circuits	25	74–86
AURT270278A	Use and maintain workplace tools and equipment	25	87–97
AURC272003A	Apply environmental regulations and best practice in a workplace or business	10	98–108
AURT271781A	Implement and monitor environmental regulations in the automotive mechanical industry	10	109–120
AURV271403A	Apply environment regulations and best practice in the body repair industry	10	121–132

The following units of competency are available for download from the Automotive Curriculum Framework Part B of the Syllabus on the Board's website (www.boardofstudies.nsw.edu.au):

AURC172003A	Identify environmental regulations and best practice in a workplace or business	0	133–136
AURC251356A	Read in the workplace	5	137–140
AURC251677A	Use numbers in the workplace	5	141–144
AURC270688A	Work effectively with others	15	145–149
AURE100064A	Remove and tag automotive electrical system components	15	150–154

Unit code	Unit title	HSC indicative hours of credit	Page numbers
AURE118671A	Test, service and maintain battery storage systems	15	155–159
AURE224008A	Carry out soldering of electrical wiring/circuits	15	160–164
AURP201570A	Service engines and associated engine components (outdoor power equipment)	20	165–169
AURP245465A	Remove, fit and adjust line trimming system components	10	170–174
AURP245571A	Service and repair faults in post boring systems	15	175–179
AURS238127A	Identify and select automotive parts and products	40	180–184
AURS238150A	Present stock and sales area	10	185–188
AURS241769A	Sell product(s)	15	189–192
AURS241803A	Apply legal requirements relating to product sales	15	193–196
AURT100064A	Remove and tag engine system components	15	197–201
AURT100164A	Remove and tag steering, suspension and brake system components	15	202–206
AURT100264A	Remove and tag transmission system components	15	207–211
AURT100308A	Carry out workshop practice activities	15	212–216
AURT125667A	Use and maintain basic measuring devices	10	217–221
AURT200368A	Select and use bearings, seals, gaskets, sealants and adhesives	15	222–226
AURT201170A	Inspect and service engines	25	227–231
AURT202170A	Inspect and service cooling systems	10	232–236
AURT212670A	Service final drive assemblies	10	237–241
AURT213170A	Service final drive (driveline)	10	242–246
AURT217606A	Balance wheels and tyres	10	247–251
AURT217665A	Remove, fit and inspect wheel assemblies	15	252–256
AURT225667A	Use and maintain measuring equipment	15	257–261
AURV100064A	Remove and tag vehicle body system components	15	262–266
AURV225908A	Carry out panel repairs	25	267–271
AURV226108A	Carry out pre-repair operations (vehicle body)	20	272–276

Unit code	Unit title	HSC indicative hours of credit	Page numbers
AURV226965A	Remove and replace/fit protector mouldings, transfers and decals	10	277–282
AURV229608A	Carry out masking procedures	10	283–287
AURV230203A	Apply rust prevention and sound deadening materials	15	288–292
AURV230349A	Prepare vehicle components for paint repairs	20	293–297
AURV231649A	Prepare vehicle/component/equipment for customer use	15	298–302
AURV231786AA	Wash/clean vehicle body and door cavities	5	303–308
AURV231786BA	Wash/clean vehicle engine and engine compartment	5	309–314
AURV231786CA	Wash/clean vehicle underbody	5	315–319
AURV231809AA	Clean and finish plastic trim and fittings	5	320–324
AURV231809BA	Clean and finish vehicle interior trim and seats	10	325–329
AURV231809CA	Clean and polish vehicle exterior paint	5	330–334
BSBCMN103A	Apply basic communication skills	0	335–339
BSBCMN205A	Use business technology	20	340–344
BSBCMN208A	Deliver a service to customers	15	345–349
BSBCMN209A	Provide information to clients	15	350–354
TDTA1197B	Package goods	10	355–360
WRRCA1B	Operate retail equipment	20	361–364
AURV230449A	Apply paint touch-up techniques	20	365–369
AURV331108A	Carry out sewing operations	30	370–374

The following **Key to Units** explains the purpose of each part of the layout of the units.

Key to Units

Indicates the Training Package to which the unit of competency belongs.

Training Package	Automotive Industry Retail, Service and Repair (AUR05)		HSC Requirements and Advice
Unit title	Apply safe working practices		
Unit code	Unit descriptor	Hours recognised for HSC credit.	HSC Indicative Hours
AURC270103A	This unit incorporates the Worksafe Australia Guidelines and encompasses competencies necessary to apply basic safety and emergency procedures to maintain a safe workplace for staff, customers and others.		20

General description of the purpose and scope of the unit and clarifies the title.

Evidence Guide		HSC Requirements and Advice
The evidence guide identifies critical aspects, knowledge and skills to be demonstrated to confirm competence for this unit. This is an integral part of the assessment of competence and should be read in conjunction with the Range Statement.		
Critical aspects of evidence	Underpinning knowledge	Key Terms and Concepts
<p>It is <u>essential</u> that competence is fully observed and there is ability to transfer competence to changing or unusual situations in the critical aspects of the unit.</p> <ul style="list-style-type: none"> communicating effectively with work identifying and assessing hazardous situations and rectifying, or reporting to the relevant persons operating fire-fighting appliances safely handling and storage of dangerous and/or hazardous goods and substances applying safe manual handling practices safely and effectively operating equipment and utilising materials over the full range of functions and processes for work undertaken on 	<p>General knowledge of the implications of OH&S on efficiency, automotive terminology. Information/requirements, equipment, materials.</p> <ul style="list-style-type: none"> Working knowledge of the selection and application of fire-fighting appliances. Working knowledge of dangerous goods and hazardous chemical handling processes. Detailed knowledge of worksite reporting procedures. 	<ul style="list-style-type: none"> accident Australian Standards automotive terminology basic first aid consultation
<p>Particular knowledge and skills essential to effective performance.</p>	<p>The evidence guide is critical in assessment as it provides information to the RTO and assessor about how the unit of competency may be demonstrated.</p>	<p>Key terms and concepts to be addressed when undertaking this unit of competency for the purposes of the HSC.</p> <ul style="list-style-type: none"> effective communication emergency personnel emergency situations employer and employee responsibilities isolation procedures reporting appliances/equipment identification hazardous situations hierarchy of risk control housekeeping/clean-up procedures
	<p>This section describes the underpinning knowledge required for this unit. Knowledge may be either explicit or implicit to effective performance.</p>	

Evidence Guide cont/d			HSC Requirements and Advice cont/d
Context of assessment	Method of assessment	Specific resource requirements for this unit	Key Terms and Concepts con/t
<p>Assessment of this unit <u>must</u> be completed on the job or in a simulated work environment which reflects a range of safe working practices.</p>	<p>It is <i>preferable</i> that assessment reflects a process rather than an event and occurs over a period of time to cover varying circumstances. Evidence of performance <i>may</i> be provided by</p>	<p>The following <u>should</u> be made available:</p> <ul style="list-style-type: none"> • a workplace or simulated workplace • situations requiring safe working practices • worksite or equivalent instructions on safe working practice • hazardous chemicals and/or dangerous information • tools, tooling and equipment • lifting appliances and fire test facilities. 	<ul style="list-style-type: none"> • Material Safety Data Sheets (MSDS) • mechanical aids/lifting equipment/devices • monitoring and reporting • occupational health and safety (OHS) • OHS legislation and codes of practice • OHS representatives/committee • participation • personal protective equipment (PPE) • pre-operational checks • product labels • repetitious tasks • risk control • risk management • safe manual handling • safe work practices and procedures • safety alarms • safety equipment and devices • safety/lockout tagging • signs and symbols • simultaneous operations • sources of information • standard operating procedures (SOPs) • use of compressed air • use of electricity/power supply • vehicular movement • WorkCover NSW • workplace injury • worksite reporting procedures • work environment • weight limits • workplace injuries.

Indicates the acceptable methods of assessment and what they encompass as specified in the Training Package.

Provides a summary of appropriate assessment environment.

Environment and resources required for assessing achievement of competency.

Specific key competencies, underpinning and employability skills required to achieve the performance criteria

These include a number of processes learned throughout work and life, which are required in most jobs. Some of these are covered by the national key competencies, although others may be added. The details below highlight how these competencies are applied in the attainment of this unit.

Application of the key competencies in this unit are to satisfy the nominated level in which:

Level 1 – relates to working effectively within set conditions and processes;

Level 2 – relates to management or facilitation of conditions or processes; and

Level 3 – relates to design, development and evaluation of conditions or process.

How will the candidate apply the following key competency in this unit? The candidate will need to:

Collect, analyse and organise information	Collect, organise and understand information related to recognising and reporting situations.	Level 1
Communicate ideas and information	Communicate ideas and information to reporting procedures (verbal and written).	Level 1
Plan and organise activities	Plan and organise activities which implement and follow standard procedures.	Level 1
Work with others and in a team	Work with others and in a team by assisting and cooperating with team members.	Level 1
Use mathematical ideas and techniques	Use mathematical ideas and techniques to document and report numbers for emergency procedures.	Level 1
Solve problems	Establish diagnostic processes which recommend improvements for OH&S issues.	Level 1
Use technology	Use workplace technology relat	

All Training Packages require the integration of key competencies. The skills and knowledge they describe are essential for effective workplace participation and involve the sorts of capabilities commonly used by employers as selection criteria. They underpin the ability of employees to adapt to technological, organisational, societal and functional change.

Indicates the industry curriculum framework to which the unit of competency belongs.

Date of release for the HSC.

