

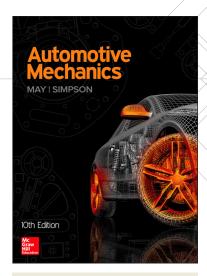
Automotive Mechanics 10E

Blended Learning Package (Available 18 Jun 2018)

by Ed May and Les Simpson with contributors:

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Automotive Mechanics is the market leading resource for automotive students in Australia. The new edition is streamlined into a single volume and has been restructured to closely reflect the national training package qualifications, making it easier than ever for instructors to deliver their courses. It contains updated information on new technologies especially in the field of auto electrics. A suite of flexible product solutions to support Blended, face to face, online access.



Connect

Connect is a digital teaching and learning environment that saves instructors and students time while improving performance over a variety of critical outcomes. The platform strengthens the link between faculty, students and coursework, helping everyone accomplish more in less time.

Features:

- Blended or fully digital learning and teaching options.
- Comprehensive suite of instructor resources to support Unit of Competency delivery.
- Updated content on auto electrics, air conditioning and petrol engines.
- A new improved design and layout making it easier for students to read.
- Detailed competency mapping demonstrates the complete coverage of knowledge evidence for both Cert II and Cert III units.

Benefits:

- Blended learning pack that is flexible to user needs.
- Engaging practice materials to check student's understanding.
- Single volume text making it more affordable for students.
- Provide students with an up-to-date, easy to read, engaging learning resource.
- All content mapped to the units of competencies assisting instructors with course delivery.

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Ed May and Les Simpson
Available for Semester 2 2018

Competency Courses on Connect				
		Unit	Relevant Chapters	
1	AURASA002 —	Follow safe working practices in an automotive workplace (CII & CIII core)	2 Workshop safety	
2	AURTTK002 —	Use and maintain tools and equipment in an automotive workplace (CII & CIII core)	4 Tools and Workshop equipment	
3	AURTTK001 —	Use and maintain measuring equipment in an automotive workplace (CIII elective)	5 Measuring and checking	
4	AURTTA005 —	Select and use bearings, seals, gaskets, sealants and adhesives (CIII elective)	6 Friction and bearings;7 Seals, gaskets and sealants	
5	AURTTA004 —	Carry out servicing operations (CII & CIII core)	8 Fuels, fluids and lubricants;9 Service and maintenance	
6	AURLTJ001 —	Select light vehicle tyres and wheels for specific applications (CII & CIII elective)	10 Tyres, wheels and balance	
7	AURLTB003 —	Diagnose and repair light vehicle hydraulic braking systems (CIII core)	11 Braking systems and service	
8	AURTTB001 —	Inspect and service braking systems (CII & CIII core)		
9	AURLTD005 —	Diagnose and repair light vehicle suspension systems (CIII core)	12 Suspension systems and service	
10	AURTTD004 —	Inspect and service suspension systems (CII core)	,	
11	AURLTD004 —	Diagnose and repair light vehicle steering systems (CIII core)	13 Steering systems and service	
12	AURTTD002 —	Inspect and service steering systems (CII core)		
13	AURLTD006 —	Carry out light vehicle wheel alignment operations (CIII elective)	14 Wheel alignment	
14	AURTTE004 —	Inspect and service engines (CII & CIII core)	15 Engine fundamentals;16 Engine construction;17 General engine service;21 Lubrication systems	
15	AURLTE002 —	Diagnose and repair light vehicle engines (CIII core)	18 Cylinder head repair and overhaul procedures;19 Cylinder block repair and overhaul procedures	
16	AURTTC003 —	Diagnose and repair cooling systems (CIII core)	20 Cooling systems and service	
17	AURTTC001 —	Inspect and service cooling systems (CII core)	20 Cooling systems and service	
18	AURTTF005 —	Diagnose and repair engine forced-induction systems (CIII elective)	22 Intake and exhaust systems and service	
19	AURLTX003 —	Diagnose and repair light vehicle clutch systems (CIII elective)	23 Clutches and service	
20	AURLTX001 —	Diagnose and repair light vehicle manual transmissions (CIII elective)	24 Manual transmissions, transaxles and service	
21	AURLTQ002 —	Diagnose and repair light vehicle drive shafts (CIII elective)	25 Drive lines, four wheel drive,	
22	AURTTQ003 —	Inspect and service drive shafts (CII core)	all wheel drive and service	
23	AURLTQ001 —	Diagnose and repair light vehicle final drive assemblies (CIII elective)	26 Rear axles, final drives and service	
24	AURTTQ001 —	Inspect and service final drive assemblies (CII core)		

Competency Courses on Connect				
		Unit	Relevant Chapters	
25	AURTTX003 —	Inspect and service automatic transmissions (CII elective)	27–30	
26	AURTTF001 —	Inspect and service petrol fuel systems (CIII core & CII elective)	31 Electronic fuel injection and engine management	
27	AURETR023 —	Diagnose and repair spark ignition engine management systems (CIII core)	32 Ignition systems and service	
28	AURETR031 —	Diagnose and repair ignition systems (CIII core)		
29	AURLTZ001 —	Diagnose and repair light vehicle emission control systems (CIII core)	33 Emission controls	
30	AURTTA018 —	Carry out diagnostic procedures (CIII core)	34 Performance measurement, diagnosis and testing	
31	AURLTF002 —	Diagnose and repair light vehicle diesel fuel injection systems (CIII elective)	35 Diesel engine features; 36 Diesel fuel systems	
32	AURETR024 —	Diagnose and repair compression ignition engine management systems (CIII elective)	37 Diesel fuel system service	
33	AURETR012 —	Test and repair basic electrical circuits (CIII core & CII elective)	38 Basic electrics	
34	AURETR032 —	Diagnose and repair automotive electrical systems (CIII elective)	39 Effects and applications of electric currents	
35	AURETR020 —	Diagnose and repair network electronic control systems (CIII elective)	40 Basic electronics	
36	AURETR025 —	Test, charge and replace batteries and jump-start vehicles (CIII core & CII elective)	41 The battery	
37	AURETR015 —	Inspect, test and service batteries (CII core)		
38	AURETR030 —	Diagnose and repair starting systems (CIII core)	42 Starting systems and service	
39	AURETR029 —	Diagnose and repair charging systems (CIII core)	43 Charging and regeneration systems and service	
40	AURETR010 —	Repair wiring harnesses and looms (CIII elective)	44 Body electrical systems and service	
41	AURETR028 —	Diagnose and repair instruments and warning systems (CIII elective)	45 Instruments and indicators	
42	AURETR043 —	Diagnose and repair electronic body management systems (CIII elective)	46 Vehicle computer systems	
43	AURETR044 —	Diagnose and repair integrated engine and transmission management systems (CIII elective)		
44	AURETH011 —	Depower and reinitialise hybrid electric vehicles (CIII elective)	47 Hybrid, electric and fuel cell vehicles	
45	AURETR022 —	Diagnose and repair vehicle dynamic control systems (CIII elective)	48 Vehicle safety systems	
46	AURETU003 —	Service air conditioning and HVAC systems (CIII elective)	49 Air conditioning	
47	AURETU004 —	Diagnose and repair air conditioning and HVAC systems (CIII elective)		
48	AURAEA002 —	Follow environmental and sustainability best practice in an automotive workplace (CII & CIII core)	Online chapter The environment and the automotive service industry	
49	AURATA001 —	Identify basic automotive faults using troubleshooting processes (CII core)	New online content written to address this	



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Blended Learning Package

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Part 1: Introduction to Motor Vehicles 1. Motor vehicle components 2. Workshop safety 3. Workshop practices 4. Tools and workshop equipment 5. Measuring and checking 6. Friction and bearings 7. Seals, gaskets and sealants 8. Fuels, fluids and lubricants 9. Service and maintenance Part 2: Running Gear 10. Tyres, wheels and balance 11. Braking systems and service 12. Suspension systems and service 13. Steering systems and service 14. Wheel alignment Part 3: Engines and Engine Systems 15. Engine fundamentals 16. Engine construction 17. General engine service 18. Cylinder head repair and overhaul procedures 19. Cylinder block repair and overhaul procedures 20. Cooling systems and service 21. Engine-lubricating systems 22. Intake and exhaust systems and service 23. Clutches and service 24. Manual transmissions and brives 25. Drive lines and service 26. Rear axles, final drives and service 27. Automatic transmissions: torque converters 31. Electronic fuel injection and engine management 32. Ignition systems and service 33. Emission controls 34. Performance measurement, diagnosis and testing 35. Diesel lengines 36. Diesel fuel systems 37. Diesel fuel systems 37. Diesel fuel systems 37. Diesel fuel systems 38. Basic electrics 39. Effects and applications of electric currents 40. Basic electrical Systems 41. The battery 42. Starting systems 42. Starting systems and service 43. Charging systems and service 43. Charging systems and service 44. Body-electrical Systems 45. Instruments and indicators 46. Vehicle computer systems 47. Hybrid, electric and fuel cell vehicles 48. Vehicle safety systems 49. Air conditioning				
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