



NZQA accredited and registered provider

Automotive Resources 2020



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473 Te Rapa Road, PO Box 10-244, Hamilton 3241

phone 07 849 9828

gateway@fairviews.co.nz

www.feds.co.nz



FairviewEducationalServices



automotive resources

Fairview Educational Services Ltd (FEDS) is a registered automotive training provider based at Fairview Motors, Hamilton. FEDS core business is the provision of distance learning materials and the delivery of full time automotive training.

FEDS supplies automotive student workbooks and assessments to over 200 schools and training providers throughout New Zealand. The FEDS team have established a strong reputation for providing student friendly and level appropriate resources backed up with excellent customer service.

The majority of unit standards available count towards automotive apprenticeships and Vocational Pathways qualifications.

RESOURCES OVERVIEW

FEDS Units:

- ▶ 36 different units available:
19 at level 2, 17 at level 3
- ▶ 13 automotive packs
(including mix and match option)
- ▶ Numeracy and standalone units
- ▶ Workbooks available for schools that teach automotive classes

FEDS Website:

- ▶ Schools have access to additional supporting resources on the website including:
 - ▶ practice assessment papers
 - ▶ option to complete workbook review questions electronically
 - ▶ revision activities
 - ▶ web links to automotive YouTube videos

Automotive Packs

- ▶ FEDS offers a range of automotive packs designed to suit students across motor and related workshops
- ▶ Packs are made up of a combination of units worth either 11 or 12 credits

- ▶ Packs are priced at \$300 +gst (includes all marking)
- ▶ Students can start on any of the packs (no pre-requisites)
- ▶ FEDS marks all workbooks and assessments for units in the packs
- ▶ Certificates issued to students when packs are completed
- ▶ FEDS offers annual gateway awards

Taster Unit:

- ▶ Schools have the option to purchase unit standard 21674 (terminology) as an automotive taster for \$75
- ▶ If a pack is purchased when unit 21674 is completed \$75 will be credited against the pack price of \$300

Standalone Units

- ▶ Four different standalone units available:
4261/12349/15408/21857
- ▶ Units are written with an automotive focus and include key work and life skills

- ▶ Standalone units can be purchased for a class or for individual students
- ▶ Different pricing options available

Numeracy Pack:

- ▶ FEDS numeracy pack includes units 4261/15408/21857 with unit 26623 embedded within these three units
- ▶ Unit 26623 (4 credits) counts towards the 10 numeracy credits required for NCEA level 1
- ▶ Different pricing options available

NZQA EXTERNAL EVALUATION

Fairview Educational Services Ltd is a Category 1 provider and received the following statements of confidence from NZQA during the most recent External Evaluation:

- ▶ Highly Confident in Educational Performance
- ▶ Highly Confident in Capability in Self-Assessment

LEVEL TWO AUTOMOTIVE PACKS

Automotive Packs
\$300 each

*Price includes all marking
Price excludes GST and courier*

Pack 1: **STARTER**

Ideal pack for students considering entering the motor industry

Unit Id	Title	Level	Credit	Assessment
21674	DKO terminology used in the motor industry	2	2	Theory
21718	DKO hazardous materials used in the motor industry	2	2	Theory
21857	Identify the occupational areas and structure of the NZ motor industry	2	2	Theory
29579	DKO good work habits and safe work practices in the motor industry	2	4	Theory
30476	DKO tools and equipment used in the motor industry	2	2	Theory
Credit Total			12	

Pack 2: **ENGINES**

Introduces students to the main engine principles and their components

Unit Id	Title	Level	Credit	Assessment
229	Identify locations and functions of motor vehicle systems and main components	2	4	Theory
21668	DKO cleaning automotive components	2	2	Theory
21687	DKO basic tuning on a four stroke petrol engine	2	3	Theory
21688	DKO disassembling and reassembling a four stroke multi-cylinder engine	2	3	Theory
Credit Total			12	

Pack 3: **VEHICLE SERVICING**

Introduces students to the main principles of carrying out basic servicing on cars

Unit Id	Title	Level	Credit	Assessment
21668	DKO cleaning automotive components	2	2	Theory
21679	DKO interchanging and balancing road wheels in the motor industry	2	2	Theory
21701	DKO motor body parts and trim	2	2	Theory
30478	DKO automotive lubricants	2	2	Theory
30572	DKO vehicle or machine batteries	2	3	Theory
Credit Total			11	

Pack 4: **ENGINEERING**

Introduces students to the main principles of automotive engineering and the use of workshop tools and equipment

Unit Id	Title	Level	Credit	Assessment
21668	DKO cleaning automotive components	2	2	Theory
21718	DKO hazardous materials used in the motor industry	2	2	Theory
29579	DKO good work habits and safe work practices in the motor industry	2	4	Theory
30475	DKO motor industry engineering tasks	2	2	Theory
30476	DKO tools and equipment used in the motor industry	2	2	Theory
Credit Total			12	



Pack 5: MOTORCYCLES

Tailored for students planning careers in the motorcycle repair industry

Please note the units below are not specific motorcycle units but contain content that is relevant to motorcycles as well as cars

Unit Id	Title	Level	Credit	Assessment
229	Identify locations and functions of motor vehicle systems and main components	2	4	Theory
21674	DKO terminology used in the motor industry	2	2	Theory
29579	DKO good work habits and safe work practices in the motor industry	2	4	Theory
30478	DKO automotive lubricants	2	2	Theory
	Credit Total		12	

Pack 6: PARTS and ADMINISTRATION

Useful for students planning careers in parts warehousing, parts sales and vehicle sales

Unit Id	Title	Level	Credit	Assessment
248	Describe an automotive apprenticeship agreement	2	1	Theory
4261	Identify legal rights and obligations in relation to owning a car	2	3	Theory
21674	DKO terminology used in the motor industry	2	2	Theory
21701	DKO motor body parts and trim	2	2	Theory
29579	DKO good work habits and safe work practices in the motor industry	2	4	Theory
	Credit Total		12	

► NB. Schools can also make up a mix and match pack with a combination of any FEDS units worth 11 or 12 credits – refer to Pack 13

LEVEL THREE AUTOMOTIVE PACKS

Automotive Packs
\$300 each

Price includes all marking
Price excludes GST and courier

Pack 7: GENERAL WORKSHOP

Introduces students to the advanced principles of workshop emergency procedures, legislation, safety systems and vehicle emissions

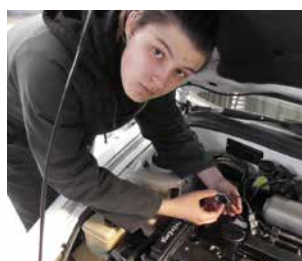
Unit Id	Title	Level	Credit	Assessment
3856	Identify emergency procedures in the motor and related industries	3	2	Theory
5766	DKO motor vehicle safety systems and working on damaged systems	3	4	Theory
23743	DKO general legislation and regulations in the motor industry	3	2	Theory
30435	DKO vehicle emissions	3	4	Theory
	Credit Total		12	

Pack 8: TRANSMISSIONS/FINAL DRIVE/BRAKES

Introduces students to the advanced principles of final drives, manual transmissions and brake systems

Unit Id	Title	Level	Credit	Assessment
920	Describe the construction and operation of manual transmissions	3	4	Theory
30561	DKO drivelines and final drives	3	4	Theory
30568	DKO brake systems	3	4	Theory
	Credit Total		12	





Pack 9: PANELBEATING

Tailored pack for students planning careers as panelbeaters or coachbuilders

Unit Id	Title	Level	Credit	Assessment
3856	Identify emergency procedures in the motor and related industries	3	2	Theory
5766	DKO motor vehicle safety systems and working on damaged systems	3	4	Theory
30480	DKO automotive cooling systems and engine coolant	3	2	Theory
30570	DKO welding in the motor industry	3	3	Theory
	Credit Total		11	

Pack 10: PETROL SYSTEMS

Introduces students to advanced principles of petrol engines, vehicle emissions and cooling systems

Unit Id	Title	Level	Credit	Assessment
30435	DKO vehicle emissions	3	4	Theory
30436	DKO an EFI system	3	2	Theory
30477	DKO petrol and diesel engines	3	4	Theory
30480	DKO automotive cooling systems and engine coolant	3	2	Theory
	Credit Total		12	

Pack 11: DIESEL SYSTEMS

Introduces students to advanced principles of diesel engines, vehicle emissions and cooling systems

Unit Id	Title	Level	Credit	Assessment
30435	DKO vehicle emissions	3	4	Theory
30437	DKO the operation of a diesel fuel system	3	2	Theory
30477	DKO petrol and diesel engines	3	4	Theory
30480	DKO automotive cooling systems and engine coolant	3	2	Theory
	Credit Total		12	

Pack 12: AUTOMOTIVE ELECTRICAL SYSTEMS

Introduces students to the advanced principles of charging, starting and ignition systems

Unit Id	Title	Level	Credit	Assessment
5766	DKO motor vehicle safety systems and working on damaged systems	3	4	Theory
30563	DKO automotive charging and starting systems	3	4	Theory
30574	DKO ignition systems	3	3	Theory
	Credit Total		11	

Pack 13: MIX and MATCH

- ▶ Schools are welcome to put together their own packs using a combination of units
- ▶ Packs can be made up of any units with a maximum of 12 credits per pack (can include a mixture of level 2 and 3 units)
- ▶ Refer to back page of handbook for full list of units offered

STANDALONE UNITS

Units: 4261/12349/15408/21857

The standalone units are written with an automotive focus and include key work and life skills. Many schools deliver these units to students across different curriculum areas. The majority of schools are accredited to assess these four units if they choose to or FEDS can mark and assess these units if preferred.

Unit Id	Title	Level	Credit	Assessment
4261	Identify legal rights and obligations in relation to motor vehicle ownership and operation <i>(includes information on drivers licences, vehicle documents, vehicle insurance, legal protection when buying a car and vehicle checks)</i>	2	3	Theory
12349	Demonstrate knowledge of time management <i>(includes information on time management, identifying and setting priorities, dealing with and minimising diversions)</i>	2	3	Theory
15408	DKO motor vehicle documentation and primary systems of a vehicle <i>(includes information on car ownership, vehicle documents, car maintenance, car grooming, tyres, fluid levels and vehicle components)</i>	2	4	Theory
21857	Identify the occupational areas and structure of the NZ motor industry <i>(includes careers information for students interested in entering the motor industry)</i>	2	2	Theory

Options available for standalone units:

OPTION 1: NB. Option 1 is available only for orders of 10 or more of each unit

- ▶ School marks the workbooks
(marking schedule supplied)
- ▶ School marks the assessments
(marking schedule supplied)
- ▶ School reports results to NZQA using School provider code
- ▶ School is responsible for moderation, both pre and post
(assessments must be retained by school)

OPTION 2:

- ▶ School marks the workbooks
(marking schedule supplied)
- ▶ FEDS marks the assessments
- ▶ School reports results using FEDS provider code

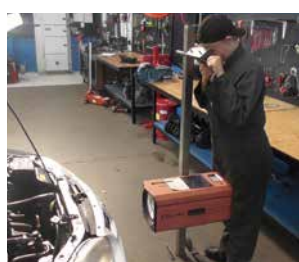
OPTION 3:

- ▶ FEDS marks the workbooks
- ▶ FEDS marks the assessments
- ▶ School reports results using FEDS provider code

Standalone unit pricing options - per unit:

Unit Id	Option 1:	Option 2:		Option 3:	
	Orders of 10+	Orders of 1-5	Orders of 6+	Orders of 1-5	Orders of 6+
15408	\$25	\$40	\$32	\$50	\$42
4261	\$20	\$35	\$27	\$45	\$37
12349	\$20	\$35	\$27	\$45	\$37
21857	\$20	\$35	\$27	\$45	\$37

Prices quoted are per student and exclude GST and courier





NUMERACY PACK

Units: 4261/15408/21857/26623

The numeracy pack includes unit standards 4261, 15408 and 21857 with unit 26623 embedded within these three units. By completing these three units over a period of time students can use the numeracy activities as evidence for unit 26623. This combined pack of three workbooks (with one question booklet) covers four unit standards and totals 13 NCEA credits. **Unit 26623 counts towards the 10 numeracy credits required for NCEA level 1.**

Unit Id	Title	Level	Credit	Assessment
4261	Identify legal rights and obligations in relation to motor vehicle ownership and operation	2	3	Theory
15408	DKO motor vehicle documentation and primary systems of a vehicle	2	4	Theory
21857	Identify the occupational areas and structure of the NZ motor industry	2	2	Theory
26623	Use number to solve problems	1	4	Embedded tasks
Credit Total			13	

The majority of schools are accredited to deliver and assess all four of these units or FEDS can mark and assess three of the units if preferred (school needs to assess unit 26623)

Options available for numeracy pack units:

OPTION 1:

- ▶ School marks the student question booklet for units 4261, 15408 and 21857
(marking schedule supplied)
- ▶ School marks the assessments for units 4261, 15408 and 21857
(marking schedule supplied)
- ▶ School is responsible for 26623
- ▶ School reports results to NZQA using School provider code for units 4261, 15408, 21857 and 26623
- ▶ School is responsible for moderation, both pre and post
(assessments must be retained by school)

OPTION 2:

- ▶ School marks the student question booklet for units 4261, 15408 and 21857
(marking schedule supplied)
- ▶ FEDS marks the assessments for units 4261, 15408 and 21857
- ▶ School is responsible for 26623
- ▶ School reports results for units 4261, 15408 and 21857 to NZQA using FEDS provider code
- ▶ School reports results for unit 26623 to NZQA using School provider code

OPTION 3:

- ▶ FEDS marks the student question booklet for units 4261, 15408 and 21857
- ▶ FEDS marks the assessments for units 4261, 15408 and 21857
- ▶ School is responsible for 26623
- ▶ School reports results for units 4261, 15408 and 21857 to NZQA using FEDS provider code
- ▶ School reports results for unit 26623 to NZQA using School provider code

Please note that for all options:

- ▶ The numeracy tasks must be completed over a period of time, for example across 2 terms
- ▶ School records student results for the numeracy tasks as evidence for unit 26623 (evidence matrix supplied)
- ▶ School retains a copy of the question booklet containing the numeracy questions and the evidence matrix
- ▶ School makes assessment decision regarding whether student has achieved unit 26623
- ▶ School reports results for unit 26623 to NZQA using School provider code

Numeracy pack pricing options – per pack:

	Option 1:	Option 2:	Option 3:
1 - 9 Packs	\$90	\$120	\$150
10 Packs+	\$80	\$110	\$140

Prices quoted are per student and exclude GST and courier

UNITS AVAILABLE IN 2020

Unit	Title	Level	Credit
	LEVEL 2		
229	Identify locations and functions of motor vehicle systems and main components*	2	4
248	Describe an apprenticeship employment agreement for the automotive industry	2	1
4261	Identify legal rights and obligations in relation to motor vehicle ownership and operation	2	3
12349	Demonstrate knowledge of (DKO) time management	2	3
15408	DKO motor vehicle documentation and primary systems of a vehicle	2	4
21668	DKO cleaning automotive components	2	2
21672	DKO new and emerging technology in the motor industry*	2	5
21674	DKO terminology used in the motor industry	2	2
21679	DKO interchanging and balancing road wheels in the motor industry	2	2
21687	DKO basic tuning on a four stroke petrol engine*	2	3
21688	DKO disassembling and reassembling a four stroke multi-cylinder engine	2	3
21701	DKO motor body parts and trim in the motor industry	2	2
21718	DKO hazardous materials used in the motor industry	2	2
21857	Identify the occupational areas and structure of the New Zealand motor industry	2	2
29579	DKO good work habits and safe work practices in the motor industry	2	4
30475	DKO motor industry engineering tasks*	2	2
30476	DKO tools and equipment used in the motor industry	2	2
30478	DKO automotive lubricants	2	2
30572	DKO vehicle or machine batteries*	2	3
	<i>* These level 2 units are reasonably technical and challenging</i>		
	LEVEL 3		
920	Describe the construction and operation of manual and semi-automatic transmissions	3	4
3856	Identify emergency procedures in the motor and related industries	3	2
5766	DKO motor vehicle safety systems and working on damaged systems	3	4
23743	DKO general legislation and regulations in the motor industry	3	2
30435	DKO vehicle emissions	3	4
30436	DKO an electronic fuel injection (EFI) system	3	2
30437	DKO the operation of a diesel fuel system	3	2
30477	DKO petrol and diesel engines	3	4
30480	DKO automotive cooling systems and engine coolant	3	2
30561	DKO drivelines and final drives	3	4
30563	DKO automotive charging and starting systems	3	4
30565	DKO an automotive air conditioning system	3	4
30566	DKO steering and suspension systems	3	2
30568	DKO brake systems	3	4
30570	DKO welding in the motor industry	3	3
30571	DKO the principles and testing of automotive electrical circuits	3	6
30574	DKO ignition systems	3	3