

Level 3 Automotive Pre-trade 2023



FEES FREE FOR ELIGIBLE LEARNERS

Fairview Educational Services Ltd (FEDS) was established in 1998 and specialises in delivering automotive trade training on site at Fairview Motors in Hamilton.

Training at Fairview Motors provides students with first hand experience of the day to day operations and expectations of a large automotive dealership. Studying in this unique environment is ideal preparation for working in the automotive and related industries. FEDS courses are responsive and relevant to the needs of the motor industry and students gain knowledge and skills that are in high demand.

FEDS is a NZQA registered and accredited training provider. During the most recent NZQA External Evaluation (2019) FEDS maintained Category 1 status (highest available) and received the following statements of confidence:

- **Highly confident in Educational Performance**
- **Highly Confident in Capability in Self-Assessment**

Why choose FEDS?

- Over 20 years experience training students for the automotive industry
- FEDS graduates are highly regarded and sought after
- High transition levels into employment and apprenticeships
- Friendly and supportive team of highly experienced and qualified tutors
- Small class sizes (no more than 15:1)
- FEDS tutors are trained to support students literacy and numeracy needs
- Excellent industry support for work experience and graduate employment
- Strong track record in supporting students to complete qualifications
- Assistance provided towards securing employment following graduation
- Tailored learning plans for individual students
- Travel allowance is available for eligible students
- FEDS has a proud history of supporting the Waikato community

New Zealand Certificate in Automotive Engineering



This Level 3 certificate is the industry recognised pre-trade qualification. Graduates of this course will be ready to pathway into employment within the motor industry and will ideally continue training through an apprenticeship.



Course duration:	40 weeks
Intake one start:	8 February 2023
Intake two start:	2 December 2024
Credits available:	120 credits
Course start time:	9.00 am
Course finish time:	3.30 pm
Course fees:	\$4250 Fees free for eligible learners

Students to complete all 5 qualification outcomes

	Qualification outcome	Credit value
1	Workplace policies and safety	10
2	Tools and equipment	15
3	Engines and drivelines	30
4	Electrical and electronic systems	40
5	Brakes, steering and suspension systems	25
Total		120

Workplace Policies and Safety

Unit	Title	Level	Credit
229	Identify the general locations and functions of vehicle systems and components	3	2
4261	Identify legal rights and obligations in relation to motor vehicle ownership	2	2
12349	Demonstrate knowledge of time management	3	2
15408	Demonstrate knowledge of motor vehicle documentation and vehicle systems	2	4

Tools and Equipment

Unit	Title	Level	Credit
924	Clean automotive components	2	1
21671	Carry out general engineering tasks in the motor industry	2	4
21684	Use a MIG welding plant in the motor industry	3	3
21859	Select and use hand tools and workshop equipment for an automotive application	2	2
30475	Demonstrate knowledge of motor industry engineering tasks	2	2
30570	Demonstrate knowledge of welding in the motor industry	3	3

Engines and Drivelines

Unit	Title	Level	Credit
243	Carry out basic engine tuning on a four stroke petrol engine under supervision	2	4
21687	Demonstrate knowledge of basic tuning on a four stroke petrol engine	2	3
24275	Disassemble, inspect and reassemble an engine short block	3	3
30435	Demonstrate knowledge of vehicle emissions	3	4
30436	Demonstrate knowledge of an EFI system	3	2
30437	Demonstrate knowledge of the operation of a diesel fuel system	3	2
30477	Demonstrate knowledge of petrol and diesel engines	3	4
30478	Demonstrate knowledge of automotive lubricants	2	2
30479	Service an automotive cooling system	3	3
30515	Remove and refit intake and exhaust system components	3	3

Electrical and Electronic Systems

Unit	Title	Level	Credit
898	Identify an automotive wiring diagram and translate information to a motor vehicle circuit	3	3
5742	Protect electronics when servicing or repairing a vehicle	3	2
5766	Demonstrate knowledge of motor vehicle safety systems and working on damaged systems	3	4
21719	Remove and replace motor vehicle lamps	2	3
22799	Demonstrate safety precautions on vehicles fitted with air bags and/or seat belt pretensioners	3	1
24093	Rectify simple vehicle lighting faults and adjust vehicle lamps	3	3
30556	Service an automotive battery	3	3
30558	Test and repair automotive electrical circuits	3	5
30565	Demonstrate knowledge of an automotive air conditioning system	3	4
30571	Demonstrate knowledge of the principles and testing of automotive circuits	3	6
30572	Demonstrate knowledge of vehicle or machine batteries	2	3
30574	Demonstrate knowledge of ignition systems	3	3

Brakes, Steering, and Suspension Systems

Unit	Title	Level	Credit
21679	Demonstrate knowledge of interchanging and balancing road wheels in the motor industry	2	2
21722	Balance wheels off a vehicle in the motor industry	2	2
30434	Service a vehicle or machine	3	3
30517	Service a brake system on a vehicle or machine	3	4
30518	Bleed a hydraulic brake system	3	2
30519	Service steering and suspension systems on a vehicle or machine	3	4
30566	Demonstrate knowledge of steering and suspension systems	3	2
30568	Demonstrate knowledge of brake systems	3	4
31063	Demonstrate knowledge of hydraulic brake system fault diagnosis	4	2

COURSE FEES 2023

- \$4250 inclusive of GST

Some students may be eligible for fees free

training:

- Students can check their fees free eligibility at www.feesfree.govt.nz
- Students aged 16 -19 that have completed a Level 2 Youth Guarantee course or who have not yet completed NCEA Level 2 may be eligible for fees free Youth Guarantee
- All workbooks and writing materials are provided to students at no charge
- Students to supply own workboots and overalls
- Course is approved for student loans and allowances

WORK EXPERIENCE

FEDS courses include classroom teaching and practical trade training. As part of the course students are required to carry out work experience in a commercial working environment. The work experience component starts after students have completed the essential safety and hand tools unit standards.

Work experience provides students with the following opportunities:

- To put new skills and knowledge into practice in a commercial environment
- To receive feedback from industry experts
- To experience the real life expectations of a busy workshop
- To gather practical evidence towards completing unit standards
- To build relationships with potential employers
- To work on a variety of vehicles using a range of specialist tools and equipment

FEDS tutors regularly visit students during work experience placements

COURSE ENTRY REQUIREMENTS

- Candidates are expected to be well presented, highly motivated and well disciplined
- It is expected that candidates will be at least sixteen years of age on the day they start their course
- Candidates are expected to have completed a minimum of three years of secondary education with competency achieved in English and Mathematics NCEA level 1 (or passes in 3 school certificate subjects)
- Candidates are expected to have a learner's driving licence as a minimum
- Candidate suitability will be determined through an interview process

APPLICATION PROCESS

Candidates are required to submit a completed **Application to Study Form** (available at www.feds.co.nz) to the Training Director, Fairview Educational Services, PO Box 10-244, Hamilton 3241 or email training@fairviews.co.nz

Candidates are required to bring the following documents to the interview:

- Current curriculum vitae
- Driver's licence
- Original birth certificate or passport

NZQA ACCREDITED AND REGISTERED PROVIDER

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