



NZQA accredited and registered provider

Youth Guarantee Courses 2017



Motor industry qualifications at levels 2 and 3
Zero fees apply for all Youth Guarantee learners

Open to learners 16 -19 years

Travel allowance available

Train on site at Fairview Motors, Hamilton

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

phone 07 849 9828

fax 07 849 9808

gateway@fairviews.co.nz

www.feds.co.nz

NZQA QUALIFICATION

Fairview Educational Services Ltd (FEDS) specialises in delivering automotive trade training and is based on site at Fairview Motors in Hamilton. FEDS is a **Category One** NZQA accredited provider and has been training students for automotive careers in the Waikato since 1998.

Training at Fairview Motors provides students with first-hand experience of the day to day operations and expectations of a large automotive dealership. Achieving a pre-trade qualification in this 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.

The programme provides an excellent grounding in the trade for those people who are focused on becoming skilled and highly trained technicians.

WHY CHOOSE FEDS?

- Unique training experience on site at a large automotive dealership.
- Friendly and supportive team of highly experienced and qualified tutors.
- Small class sizes (no more than 15:1).
- Excellent industry support for work experience and graduate employment.
- Strong track record in supporting students to complete qualifications and in securing employment. Tailored individual learning plans for every student.
- As a company of Fairview Motors we have a proud history of supporting the Waikato community.

YOUR FUTURE

This course prepares students for apprenticeship opportunities in each of the following areas:

- *Automotive Engineering*
- *Automotive Heavy Engineering*
- *Road Transport*
- *Agricultural machinery servicing*
- *Plant and Equipment*
- *Automotive Electrical Engineering*
- *Automotive Machining*
- *Motorcycle Engineering*
- *Power Boat Servicing*
- *Brake Service Engineering*
- *Radiator Repairing*
- *Fuel Injection Engineering*
- *Automotive Air Conditioning*
- *Outdoor Power Equipment Servicing*



It is also a useful qualification for entry into other motor industry occupations such as:

- Automotive Parts Person
- Service Station Attendant
- Automotive Dismantler
- Motor Vehicle Salesperson

LEVEL TWO QUALIFICATION

National Certificate in Educational Achievement Level 2 (Vocational Pathway Endorsement Manufacturing and Technology)

This qualification provides an excellent grounding for students across various automotive trades. As well as completing motor industry standards students will have the opportunity to complete the literacy and numeracy standards required for NCEA.

At the completion of this qualification graduates will be ready to move into employment within the motor industry or carry on to study the level three Certificate in Automotive Services qualification (zero fees apply for Youth Guarantee students).

Course duration:	20-24 weeks from enrolment
Course start date:	Rolling start
Credits available:	60 automotive credits (to be selected from approved list) 10 literacy and 10 numeracy credits if required for NCEA
Earliest start date:	17 January 2017
Start time:	9.00 a.m.
Finish time:	3.30 p.m.

ENTRY REQUIREMENTS

- Candidates are expected to be well-presented, highly motivated and extremely well disciplined
- Candidates must be at least sixteen years of age and no more than nineteen years of age on their start date
- Candidate suitability will be determined through the interview process

APPLICATION PROCESS

Candidates that meet the entry requirements above are asked to submit a completed Application to Study Form to the Training Services Manager, Fairview Educational Services, PO Box 10244, Hamilton 3241.

Candidates that are invited to attend an interview need to bring along the following:

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

COURSE FEES 2017

- This course is fully funded by the Tertiary Education Commission (TEC)
- All workbooks and writing materials are provided at no charge to the student
- Boots and overalls are available on a shared basis for student use
- Assistance with travel costs is also available

Vocational Pathway Endorsement Manufacturing and Technology

Students and tutor to select 60 credits from the following:

AUTOMOTIVE ADMINISTRATION

Unit	Title	Level	Credit
21672	Demonstrate knowledge of new and emerging technology in the motor industry	2	5
21673	Demonstrate knowledge of maintaining stock security in the motor and related industries	2	2
21674	Demonstrate knowledge of terminology used in the motor industry	2	2

AUTOMOTIVE ELECTRICAL AND ELECTRONICS

Unit	Title	Level	Credit
3877	Protect vehicle electronics	2	2
234	Demonstrate knowledge of automotive starting and charging systems	2	4
235	Demonstrate knowledge of ignition systems	2	4
21667	Demonstrate knowledge of testing electrical circuits	2	3
21675	Demonstrate knowledge of batteries	2	2
21676	Select test equipment and test an electrical circuit	2	4
21707	Demonstrate knowledge of automotive electrical principles	2	6
21719	Remove and replace motor vehicle lamps	2	1

AUTOMOTIVE FUEL SYSTEMS AND EXHAUSTS

Unit	Title	Level	Credit
240	Demonstrate knowledge of petrol fuel systems	2	3
21677	Demonstrate knowledge of a diesel fuel system	2	2
21692	Perform minor servicing tasks on a diesel fuel system	2	2

ENGINES

Unit	Title	Level	Credit
231	Explain the operation of two and four stroke petrol and diesel engines	2	4
21688	Demonstrate knowledge of disassembling and reassembling a four stroke multi cylinder engine	2	3

AUTOMOTIVE PREVENTIVE MAINTENANCE

Unit	Title	Level	Credit
229	Identify the general locations and functions of motor vehicle systems and main components	2	4
247	Prepare a vehicle and/or machine for use and shut down after use	2	2
21679	Demonstrate knowledge of interchanging and balancing road wheels in the motor industry	2	2
21680	Demonstrate knowledge of lubricants and sealants	2	2
21690	Perform general servicing checks on a motor vehicle	2	3
21716	Select and apply lubricants and sealants	2	1

MOTOR INDUSTRY INTRODUCTORY SKILLS

Unit	Title	Level	Credit
3856	Identify emergency procedures in the motor and related industries	2	2
16113	Demonstrate knowledge of safe working practices	2	2
21668	Demonstrate knowledge of cleaning automotive components	2	2
21669	Demonstrate knowledge of hand tools and workshop equipment for motor industry applications	2	2
21670	Demonstrate knowledge of general engineering tasks in the motor industry	2	3

AUTOMOTIVE WORKSHOP ENGINEERING

Unit	Title	Level	Credit
924	Clean automotive components and maintain equipment	2	1
21671	Carry out general engineering tasks in the motor industry	2	4
21682	Demonstrate knowledge of oxy-acetylene welding	2	2
21683	Demonstrate knowledge of MIG welding in the motor industry	2	2
21684	Use a MIG welding plant in the motor industry	2	3
21685	Use a oxy-acetylene welding plant	2	3
21718	Demonstrate knowledge of hazardous materials	2	2
21858	Demonstrate good work habits and perform safe practices	2	4
21859	Select and use hand tools and workshop equipment for an automotive application	2	2

TYRES

Unit	Title	Level	Credit
21722	Balance wheels off a vehicle in the motor industry	2	2

VEHICLE BRAKING SYSTEMS

Unit	Title	Level	Credit
242	Balance wheels off a vehicle in the motor industry	2	2
21689	Demonstrate knowledge of hydraulic brake fluid, fluid replacement, and brake bleeding procedures	2	2
21720	Demonstrate knowledge of vehicle braking systems	2	2

VEHICLE STEERING AND SUSPENSION

Unit	Title	Level	Credit
21721	Demonstrate knowledge of vehicle steering and suspension systems	2	2

AUTOMOTIVE TRANSMISSION SYSTEMS

Unit	Title	Level	Credit
239	Demonstrate knowledge of automotive manual transmissions	2	2

VEHICLE BODYWORK

Unit	Title	Level	Credit
399	Detail and groom a vehicle	2	4
21698	Remove and replace exterior and interior motor body parts	2	3
21701	Demonstrate knowledge of exterior and interior motor body parts and trim	2	2

NCEA LEVEL 1- LITERACY AND NUMERACY CREDITS (IF REQUIRED)

Unit	Title	Level	Credit
26622	Write to communicate ideas	1	4
26623	Use number to solve problems	1	4
26624	Read texts with understanding	1	3
26625	Actively participate in spoken interaction	1	3
26626	Interpret statistical information for a purpose	1	3
26627	Use measurement to solve problems	1	3

LEVEL THREE QUALIFICATION

Certificate in Automotive Services (Technician)

This level 3 course includes the level 2 pre-trade qualification and 40 level three credits. The course is targeted at students that have achieved NCEA level 2. Graduates of this course are ready to pathway into employment within the motor industry and will ideally will continue their training through an apprenticeship.

Course duration:	40 weeks
Course start date:	Rolling start – students may continue into 2018
Credits available:	1 level 1 - 92 level 2 - 40 level 3
Earliest start date:	17 January 2016
Start time:	9.00 a.m.
Finish time:	3.30 p.m.

ENTRY REQUIREMENTS

- Candidates are expected to be well-presented, highly motivated and extremely well disciplined
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COURSE FEES 2017

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- Boots and overalls are available on a shared basis for student use
- Assistance with travel costs is also available

COMPULSORY: INTRODUCTION AND SAFETY (ISM)

Unit	Title	Level	Credit
3856	Identify emergency procedures in the motor and related industries	2	2
21672	Demonstrate knowledge of new and emerging technology in the motor industry	2	5
21674	Demonstrate knowledge of terminology used in the motor industry	2	2
16113	Demonstrate knowledge of safe working practices in an automotive workshop	2	2
21858	Demonstrate good work habits and perform safe work practices in the motor and related industries	2	4
231	Explain the operation of two and four stroke petrol and diesel engines	2	4

COMPULSORY: ENGINES MODULE (EM)

Unit	Title	Level	Credit
21686	Demonstrate knowledge of automotive cooling systems	2	2
21717	Service automotive cooling systems	2	3
11733	Demonstrate knowledge of vehicle exhaust systems	3	4
21678	Remove, repair and/or replace a vehicle and/or machine exhaust system	3	2
21683	Demonstrate knowledge of MIG welding in the motor industry	2	2
21684	Use a MIG welding plant in the motor industry	2	3

COMPULSORY: MAINTENANCE (MEM)

Unit	Title	Level	Credit
249	Carry out automotive industry personal workplace requirements	2	5
21669	Demonstrate knowledge of hand tools and workshop equipment for motor industry applications	2	2
21859	Select and use hand tools and workshop equipment for an automotive application	2	2
21671	Carry out general engineering tasks in the motor industry	2	4
247	Prepare a vehicle and/or machine for use and shut down after use	2	2
7118	Manage own learning programme	2	3

COMPULSORY: BRAKES MODULE (BM)

Unit	Title	Level	Credit
21869	Remove and replace road wheels in the motor industry	1	1
21722	Balance wheels off a vehicle in the motor industry	2	2
242	Change the fluid and bleed a brake hydraulic system	2	2
21720	Demonstrate knowledge of vehicle braking systems	2	2
21721	Demonstrate knowledge of vehicle steering and suspension systems	2	2
5466	Remove and replace car and/or light vehicle brake pads and shoes	3	2
23817	Demonstrate knowledge of braking principles and system component operation for light vehicles	3	5
23818	Demonstrate knowledge of braking system fault diagnosis and repair requirements for light vehicles	3	3

COMPULSORY: ELECTRICAL 1 (ELM1)

Unit	Title	Level	Credit
233	Service and automotive battery	2	2
3877	Demonstrate knowledge of protecting vehicle electronics in the motor industry	2	2
21676	Select test equipment and test an automotive electrical circuit	2	4
21707	Demonstrate knowledge of automotive electrical principles	2	6

COMPULSORY: ELECTRICAL 2 (ELM2)

Unit	Title	Level	Credit
898	Identify an automotive wiring diagram and translate information to a motor vehicle circuit	3	3
22799	Demonstrate safety precautions on vehicles fitted with air bags and/or seat belt pre-tensioners	3	1
243	Carry out basic tuning on a four stroke petrol engine under supervision	2	4

COMPULSORY: FUEL SYSTEMS (FSM)

Unit	Title	Level	Credit
240	Demonstrate knowledge of petrol fuel systems	2	3
21677	Demonstrate knowledge of a diesel fuel system	2	2
5461	Explain the operation and testing of automotive emission controls	3	4

COMPULSORY: TRANSMISSIONS (TM)

Unit	Title	Level	Credit
239	Demonstrate knowledge of automotive manual transmissions	2	2
920	Describe the operation of a manual transmission used on cars and light commercial vehicles	3	4
229	Identify the general locations and functions of motor vehicle systems and main components	2	4

COMPULSORY: SPECIALIST (SPM)

Unit	Title	Level	Credit
947	Describe Knowledge of vehicle bodywork construction materials and metals	3	8
15373	Demonstrate knowledge of automotive air conditioning	3	4
21673	Demonstrate knowledge of maintaining stock security in the motor and related industries	2	2

ELECTIVE UNIT STANDARDS

Unit	Title	Level	Credit
21670	ELEC 01: Demonstrate knowledge of general engineering tasks in the motor industry	2	3
21687	ELEC 02: Demonstrate knowledge of basic engine tuning on a four stroke petrol engine	2	3
244	ELEC 03: Disassemble and reassemble a four cylinder four stroke engine to a running state	2	6

WORK EXPERIENCE

Both Youth Guarantee qualifications include classroom teaching and practical trade training. A requirement of both courses is for students to carry out work experience in a commercial working environment. The work experience component starts after the students have completed the essential safety and hand tools units.



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