

School of Trades, Engineering and Construction

**CERTIFICATE IN ENGINEERING AND AUTOMOTIVE TRADES (LEVEL 2)
(incorporating the NATIONAL CERTIFICATE IN MOTOR INDUSTRY ENTRY
SKILLS (LEVEL 2) with strand in Automotive Electrical and Mechanical)**

Programme Codes: Wintec: TK0502 MoE Code: WK2533
Programme Level: Level 2
Credits: 120
Effective Date: January 2009

These regulations should be read in conjunction with the Institute's Academic Regulations, clause 2 General Programme Regulations.

1. Admission, Entry and Selection

- 1.1. There is open entry to this programme, although candidates must demonstrate a reasonable likelihood of success.
- 1.2. All candidates will be required to participate in an interview selection process.

2. Programme Requirements

- 2.1 Every candidate for the Certificate in Engineering and Automotive Trades (Level 2) (incorporating the National Certificate in Motor Industry (Entry Skills) (Level 2) with strand in Automotive Electrical and Mechanical, shall to the satisfaction of the Academic Board follow a programme of study for a period of normally not less than two semesters.
- 2.2 Each candidate's programme of study shall comprise compulsory and elective modules as listed in section 6 of these regulations as follows:
 - 2.2.1 Candidates for the Certificate in Engineering and Automotive Trades (Level 2) will complete 68 credits from Groups A and B (all the modules in Groups A and B), and the balance of 52 credits from Group C, totalling a minimum of 120 credits.
 - 2.2.2 Candidates for the National Certificate in Motor Industry (Entry Skills) (Level 2) with strand in Automotive Electrical and Mechanical will complete 36 credits from Group A (all the modules in Group A), a minimum of 14 credits from Group B and of the balance of credits from Group C, totalling a minimum of 80 credits.

3. Completion of the Programme

A candidate may take up to two years to complete this programme, unless an extension is granted by special permission of the Head of School or designated equivalent, or authorised nominee.

4. Assessment

Assessment in this programme is competency based, therefore, aegrotat consideration is not available.

5. Award of Qualification and Incorporated National Certificate

5.1 Candidates who successfully complete the requirements set out in clause 2.2.1 of these regulations will be awarded the Certificate in Engineering and Automotive Trades (Level 2), and will be eligible to apply to the New Zealand Qualifications Authority for the award of the National Certificate in Motor Industry (Entry Skills) (Level 2) with strand in Automotive Electrical and Mechanical.

5.2 Candidates who successfully complete the requirements set out in clause 2.2.2 of these regulations will be eligible to apply to the New Zealand Qualifications Authority for the award of the National Certificate in Motor Industry (Entry Skills) (Level 2).

6. Schedule of Modules

Group A - Compulsory Modules

Module Code	Module Title	Credits	Level
TE07118	Manage own Learning Programme	3	2
TE00249	Personal Workplace Requirements	5	2
TE03856	Emergency Procedures	2	2
TE21672	Emerging Technology	5	2
TE21673	Stock Security	2	2
TE21674	Terminology	2	2
TE03877	Protecting Vehicle Electronics	2	2
TE00229	Locations and Functions	4	2
TE21869	Road Wheels	1	1
TE16113	Safe Working Practices	2	2
TE21669	Hand Tools and Equipment	2	2
TE21858	Work Habits	4	2
TE21859	Select and Use Hand Tools	2	2

Group B - Compulsory Modules

Module Code	Module Title	Credits	Level
TE00101	Keyboarding Skills	3	1
TE07123	Problem Solving	2	2
TE21857	New Zealand Motor Industry	2	1

TE21719	Motor Vehicle Lamps	1	2
TE21670	General Engineering Tasks	3	2
TE21671	Carry Out General Engineering Tasks	4	2
TE21714	Fastening Tasks	2	2
TE21715	Use Fastening Systems	2	2
TE02989	Read and Assess Texts	4	2
TE00405	Consumerism	3	2
TE00056	Customer Enquiries	2	1
TE00057	Customer Service	2	2
TE00064	Calculations	2	1

Group C – Elective Modules

Module Code	Module Title	Credits	Level
TE21681	Stock	2	2
TE00234	Starting and Charging Systems	4	2
TE00235	Ignition Systems	4	2
TE21667	Electrical Circuits	3	2
TE21675	Batteries	2	2
TE21707	Automotive Electrical Principles	6	2
TE00240	Petrol Fuel Systems	3	2
TE21677	Diesel Fuel Systems	2	2
TE21678	Repair Exhaust System	2	3
TE21692	Service Diesel Fuel System	2	2
TE00247	Prepare for Use	2	2
TE21679	Balancing and Interchanging Road Wheels	2	2
TE21680	Lubricants and Sealants	2	2
TE21716	Apply Lubricants and Sealants	1	2
TE00239	Manual Transmissions	2	2
TE00924	Cleaning Equipment	1	2
TE21668	Cleaning Components	2	2
TE00243	Tuning Four Stroke Engine	4	2
TE00244	Assemble Four Stroke Engine	6	2
TE21686	Cooling Systems	2	2
TE21687	Tuning Petrol Engines	3	2
TE21688	Assemble Multi-Cylinder Engine	3	2
TE21717	Service Cooling Systems	3	2

Module Code	Module Title	Credits	Level
TE21722	Balance Wheels	2	2
TE21689	Brake Fluid	2	2
TE21720	Braking Systems	2	2
TE21721	Vehicle Suspension	2	2