



I want to create things that move
 MY PATHWAY IS RED



Career Opportunities

Assembler, appliance servicing, engineer, industrial measurement, fabrication, machine operator, aeronautical engineer, automotive technician, automotive electrician, architectural technician, boat builder, cabinet maker, collision repair technician, civil engineer, industrial designer, joiner, metal worker, tyre technician, welder + many more!



Industries Manufacturing

Aircraft manufacture, marine products, clothing, concrete, dairy, defence force, electronics, food and beverage, glass, machinery and equipment, mechanical engineering, metal, paint, chemicals & plastics, upholstery, jewellery, transport, medical instrumentation + many more!



Industries Technology

Aeronautical & automotive engineering, green technologies, computer-aided design, electro-technology, information and communications technology, nanotechnology, robotics, software + many more!



Manufacturing & Technology

For further careers information visit
youthguarantee.net.nz
careers.govt.nz

Your son or daughter has expressed an interest in enrolling in the Waikato Trades Academy.

The Waikato Trades Academy (WTA) is a secondary-tertiary partnership between secondary schools and Wintec. The objective is to assist students in gaining industry relevant experience and credits within a Vocational Pathway that interests them, while still studying at secondary school.

Students enrolled in the WTA must still attend secondary school and keep up with their normal school work. The unit standards achieved at the WTA will count towards NCEA Level 1, 2 or 3.

The Manufacturing and Technology Vocation Pathway is about producing things and making them work. Its hands-on, project based and great for people who enjoy technology. The manufacturing side covers putting products together, servicing, shipping, and purchasing and quality control; all of the processes needed to turn out finished products. The technology side applies innovation and creative ideas and knowledge to manufacturing. This pathway will use maths and science to solve problems.

Introduction to Manufacturing and Technology Level 2

Programme Modules: Mechanical Engineering, Electrical Engineering and Automotive Engineering

- |||| NCEA Level: Level 2 (Level 3 at WTA second year)
- |||| Number of Credits: 37
- |||| Duration of Programme: February to November with the option to re-enrol for level 3 towards the end of the year
- |||| Programme Structure: 1 day per week starting mid February (8:30am – 3:00pm) during the school term
- |||| Location: Depending on your closest location, it will be one of the following:
 - *Wintec Rotokauri Campus, Hamilton (51 Akoranga Rd)
 - *Wintec Kopu Workshop, Thames (25 Kopu Road)
- |||| Cost: Free to the student
- |||| Transport: To be arranged with your school. No extra charges should apply
- |||| Contacts: Your contact during enrolment is your secondary school. Your school's key WTA contact will discuss your enrolment, collect your enrolment form and birth certificate, and arrange your transport to Wintec. Once your enrolment is confirmed you will receive a confirmation letter from your school outlining your start date, procedures for absences, and contact details for your Student Advisor at WTA.
- |||| Level 3 Entry Criteria: To move on to level 3 you will need to have completed 80% of the available credits in level 2, along with 80% or higher attendance across all points of the year.



Manufacturing & Technology

For further information about WTA visit
wintec.ac.nz/wta

Unit Standard	Title	Level	Credits
18243	Construct a simple electronic product from a supplied circuit schematic	2	6
15849	Perform manual soldering and de-soldering procedures for electrotechnology work	2	2
21707	Demonstrate knowledge of automotive electrical principles	2	6
02395	Demonstrate and apply knowledge of the selection, use, and care of engineering hand	2	4
04433	Select, use, and care for simple measuring devices used in engineering	1	2
21911	Demonstrate knowledge of safety on engineering worksites	2	2
21679	Demonstrate knowledge of interchanging and balancing road wheels in the motor	2	2
21722	Balance wheels off a vehicle in the motor industry	2	2
21869	Remove and replace road wheels on a vehicle	1	1
21718	Demonstrate knowledge of hazardous materials used in the motor industry	2	2
21671	Carry out general engineering tasks in the motor industry	2	4

Total Credits | L1 = 3 | L2 = 34