

WAIKATO

TRAIN WHILE YOU'RE STILL AT SCHOOL

RADES ACADEMY

Building a stronger community through education, research and career development



Wintec
WAIKATO INSTITUTE OF TECHNOLOGY
Te Kuratini o Waikato

The Beginning

- WTA Vision – Working in partnership to provide integrated, high-quality educational pathways
- Funding Model
- Code of Conduct, Safety & Pastoral Care
- Reporting
- Qualifications

- Presentation to Secondary Schools
- Student Nomination
- Information Day / Evening
- Final Student Selection
- Enrolments
- 2011 Induction Day



Student Commitment

Ideal candidates :

- Are keen or have a passion in a trade
- Are punctual – good attendance at school
- Are reliable and hard working
- Are willing to work hard to complete the set tasks
- Will participate in a classroom situation (a team player)
- Someone who shows a strong likelihood of succeeding
- Will commit to the three year programme



WTA Year 1

- Generic first year
- Free course related equipment
- Three - two week block courses (total of six weeks per year)
- 23 credits (not towards each area)
- Final Day: testing, tuning and competitions
- Students decide which trade pathway they wish to take in Year 2



Generic Year 1

Area	Unit	Description	Level	Credit
Auto	3856	Identify emergency procedures in the motor and related industries	2	2
Auto	7118	Manage own learning programme	2	3
Auto	21859	Select and use hand tools and workshop equipment for an automotive application	2	2
Eng	497	Demonstrate knowledge of workplace health and safety requirements	1	3
Eng	2395	Select, use and care for, engineering hand tools	2	4
Eng	2396	Select, use and maintain portable hand held engineering power tools	2	4
E/Eng	6401	Provide first aid	2	1
E/Eng	6402	Provide resuscitation level 2	1	1
Elec	1978	Identify basic employment rights and responsibilities, and sources of information and assistance	1	3

Total

23

WTA Years 2 and 3



- Students complete final two years in their chosen field:
 - National Certificate in Motor Industry Level 2
 - National Certificate in Electrical Engineering Level 2
 - National Certificate in Mechanical Engineering Level 2
- Project(s) across each year for each programme
- Practical and theory split

Year's 2 & 3

Mechanical Engineering

Units	Engineering Year 2	Level	Credit
2430	Draw and interpret engineering sketches under supervision	2	4
2432	Construct engineering plane geometric shapes under supervision	2	3
21905	Demonstrate knowledge of trade calculations and units for mechanical engineering trades	2	4
21908	Demonstrate knowledge of basic mechanics for mechanical engineering trades	2	2
21909	Demonstrate knowledge of fasteners used in mechanical engineering	2	1
4433	Select, use, and care for simple measuring devices used in engineering	1	2
4435	Select, use, and care for engineering dimensional measuring equipment	2	3
4436	Select, use, and care for engineering marking-out equipment	2	4
21911	Demonstrate knowledge of safety on engineering worksites	2	1

Total **24**

	Engineering Year 3	Level	Credit
20799	Demonstrate basic knowledge of engineering metals	2	4
20917	Demonstrate basic knowledge of engineering materials	2	2
21907	Demonstrate and apply knowledge of safe welding procedures under supervision	2	3
2387	Assemble mechanical components under supervision	2	2
21913	Shift loads in engineering installation, maintenance, and fabrication work	2	2

Elective

25075	Perform basic fabrication operations under supervision	2	12
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Total **25**

Summary

- Strong partnerships with Secondary Schools
- Agreed upon designs
- Year 11 - important year of study
- Retention rate - Year 12 to 13
- 2013

