DONNA BURGESS
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027 778 8157

PATCHELL INDUSTRIES LTD

IN PARTNERSHIP WITH TRIDENT HIGH SCHOOL

TRANSPORT ENGINEERING – FABRICATION / LEVEL 2-3

This work-based training opportunity takes place at Patchell Industries Limited in Rotorua. Students will partake in a journey of real work experiences in a full-sized workshop using tools that support the transportation, logistics and primary industries sectors.

Patchell Industries offer students a "real" employment experience while gaining NCEA credits. Students will go through a full recruitment and onboarding process, starting with applying for the position, followed by a selection interview. Successful applicants will finish with pre-employment drug tests, followed up by a health and safety induction.

Once students have completed their induction, students will be assigned to a supervisor and team, receive instruction and training. They will then be assigned Job Cards to be accountable for their time and task completion, followed by timesheets. This provides an audit trail for their work-based training. This practical learning experience will give them full awareness of how their new skills are applied to a manufactured product (Heavy Road Transport Trailer).

Course delivery: terms 1-3, 1 day per week, at Patchell Engineering in ROT.

A second day of work-based training can be negotiated as a Gateway Work Experience with the school and Patchell Engineering.

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UNIT STD	TRANSPORT ENGINEERING – FABRICATION	LEVEL	CREDITS
1294	Be Interviewed in a formal Interview		4
10791	Participate in a meeting		2
1299	Be assertive in a range of specified situations		3
29397	Calculations used in Mechanical Engineering and technical trades		4
21911	Demonstrate Knowledge of safety on an engineering worksite		2
21912	Apply safe working practice on an engineering worksite		2
21907	Demonstrate knowledge of welding principles and quality control and safe welding practice under supervision		4
2395	Demonstrate and apply knowledge of selection, use and care for engineering hand tools		4
2396	Demostrate and apply knowledge of selection, use and care for portable hand-held power tools		4
30282*	Weld steel structures in the downhand positions using the gas shielded flux cored arc welding process, Level 3*		6
30283*	Weld steel structures in the downhand positions using the gas metal arc welding process, Level 3*		6
29730	Apply good work practices when performing basic fabrication operations under supervision		6
	TOTAL CREDIT VALUE	**2-3**	**47**

**L3 credits are pending approval.*

COURSES PATHWAY TO FURTHER STUDY IN:

NZ Certificate in Mechanical Engineering (Level 3), NZ Certificate in Mechanical Engineering (Trade) (Level 4), NZ Certificate in Engineering Fabrication (Level 3), NZ Apprenticeship Mech Engineering / Fabrication Engineering- all strands (Level 4)

TYPES OF EMPLOYMENT THESE COURSES LEAD TO:

Fabrication and welding of steel componentry and structures in general engineering, transport, agriculture, forestry, construction, dairy, automotive, building, and marine Industries. Roles in maintenance, fitting, machining, and general engineering.

THIS IS WHAT YOUR FUTURE CAN LOOK LIKE

- Bianca, from Gateway to Trade Certified and a homeowner at 21 years old.
- Jason, from Apprentice to lifestyle block owner and now owns his own Engineering business at 29 years old.
- Sam, from Apprentice to homeowner, supervisor, and now training for management at 30 years old