Certificate II in Integrated Technologies (Robotics Control Systems)

A robotic project driven learning program!

Overview
In this course learners will gain foundation skills required by industries involved with automation and robotics. The units will be taught in a very hands-on approach through two projects involving simple robots. In addition, students will learn basic electronics, programming, 3D printing and will be introduced to engineering drawing. Students will also gain skills in using basic hand tools.

Entry level work
- Automation
- Robotics
- Electronics technician
- Electronic engineering
- Smart technologies
- Mechatronics Engineering
- Electrical trades
- Instrumentation trades

Course structure
Core units
- Apply principles of OHS in the work environment
- Carry out an integrated technology project
- Prepare for working in the integrated technology sector
- Work in an integrated technology environment
- Use electrotechnology skills in integrated technology work
- Use software applications in integrated technology work

Elective units
- Configure and program a basic robotic system
- Implement a digital circuit using a programmable logic device (PLD)
- Test and verify correct operation of a 'by-wire' control system
- Set up and test an embedded control system
- Create products using 3D printing
Location
East Perth campus | 140 Royal St

Course dates
This course is being offered in 2019 — Term 1 start

Duration
2 terms duration, approximately 16.5 hours a week

Future training pathways
Students completing this course can transition into one of the following pathways:

Engineering
- Certificate III in Engineering (Technical) (MEM30505) with job outcomes or pathways into a Diploma.
- Certificate IV in Integrated Technologies (Specialising in Motor Control and Programmable Logic Controllers) (22263VIC) with job outcomes or pathways into a Diploma.
- Diploma of Engineering – Technical* (Mechatronics) or (Mechanical) (MEM50212) to Advanced Diploma of Engineering (Mechatronics) or (Mechanical) (MEM60112) to the 2nd year of Curtin University’s Engineering Program in a similar area.
- Diploma of Civil and Structural Engineering* (52725WA) to Advanced Diploma of Civil and Structural Engineering (52724WA) to the 2nd year of Curtin University’s Engineering Program in a similar area.

Electrotechnology/Electronics
- Certificate III in Electrotechnology Electrician (Apprentice) (UEE30811) to Certificate IV in Electrical – Instrumentation (UEE40411)
- Certificate III of Electronics and Communication (Apprentice) (UEE30911) to Certificate IV in Electronics and Communications (UEE40711)
- Certificate IV in Electronics and Communications (UEE40711)

*Students can gain direct entry into a Diploma without doing the Certificate III in Engineering (Technical) if they have completed WACE General or ATAR (minimum C grades) or equivalent.

Contact
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