

# TAFE NSW ADVANCED MANUFACTURING COURSE

## Now taking expressions of interest

Manufacturing supply chains are becoming increasingly global, with customisation and the integration of service offerings becoming the new norm. These product transformations are being driven by significant advances in digital connectivity and analytics, which are also playing a role in creating more efficient supply chains and factory floors.

Over the next 20 years, Australia's manufacturing industry will continue to evolve into a highly integrated, collaborative and export-focused ecosystem that provides high-value customised solutions within global value chains. This presents great opportunity to transform Australia's manufacturing sector.

### JOBs FOR THE FUTURE

The Hunter has a unique manufacturing heritage with a multitude of leading technology and manufacturing companies who have supported major industries including Defence for decades. A number of companies have already purchased equipment and implemented new technologies and are operating with proficiency.

The challenge for the local industry is sourcing and attracting local people with the skills, knowledge and understand to support and maintain advanced manufacturing practices and technology.

Many traditional trade workers may have not yet been exposed to the new technologies that are being adopted including complex electronics, pneumatics, 3D printing, precision welding and machining, and rapid prototyping. This course is designed to fill the gap and provide people currently working in, or looking



to enter the manufacturing sector with the skills and knowledge needed to:

- Understand how to install and maintain equipment to increase production
- Understand how to repurpose existing, dated equipment using current technology
- Have an appreciation for business methodology, commerce and lean principles in order to understand why decisions are being made to 'advance manufacturing'

## ABOUT THE COURSE

The course will cover four key learning areas and important skill sets that have been designed in partnership with industry experts in the advanced manufacturing sector, and aligned with best practice.

### LEAN BUSINESS

- Business Management
- IT
- Competitive Systems (Lean Manufacturing)

### WATER TREATMENT

- Science (Water Treatment and Control)
- Instrumentation

### RAPID PROTOTYPING

- Industrial Design (3D printing)
- Electronics (Analogue and Digital)

### MECHATRONICS

- Engineering Trades (Pneumatics)
- Logic Controllers
- Metal Fabrication and Precision Welding

### WHO CAN STUDY THIS COURSE?

- School leavers - those who wish to leave school prior to finishing year 12
- Career starters - those who have completed their HSC
- Upskillers - those people already working in related industries who wish to develop specific skills in advanced manufacturing
- Career changers - existing workers seeking a new career direction

## FURTHER INFORMATION

**Register your interest and find out more:**

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