

# CAREER FACT SHEET

## Metal Casting, Forging & Finishing Trades

### Snapshot

Metal Casting, Forging & Finishing Trades fabricate mould patterns and form sand moulds and cores for the production of metal castings, heat and hammer metal into shape, and make, repair, coat and polish metal parts and articles.

How many are employed in this occupation?	3,500
What are the average weekly earnings for full time workers?	\$999
How does unemployment compare with other occupations?	Average
What are the job prospects for this occupation?	Low
What will be the likely future employment growth for the next five years?	Moderate Growth

### Main employing industries

Manufacturing; Agriculture, Forestry and Fishing; Construction; Other Services

### Tasks

This occupation may include associated occupations with varying tasks.

- selecting metal stock for job requirements
- heating metal in forges and furnaces and hammering, punching and cutting metal using hand tools and machine presses
- tempering and hardening finished articles by quenching in oil or water baths or by cooling gradually in air
- preparing electrolytic and silver solutions for electroforming, and applying solution to the objects to be coated
- setting and adjusting controls to regulate electric current and depositing of coating on objects
- preparing horses' hooves for shoeing, nailing horseshoes to hooves, and trimming hooves
- cutting, trimming, shaping and smoothing stock to form mould patterns
- filling boxes with sand and setting patterns in place, and pouring molten metal into moulds
- applying refractory paint and positioning cores in moulds
- finishing metal and articles by polishing and buffing and applying shellac, lacquer, paint and other finishes.

# INDUSTRY OVERVIEW

## Manufacturing

If you're a hands on sort of person who likes getting stuck into tasks involving the use of tools and machinery to create new items, or you like to work on projects that bring technical concept drawings to life, then a career in the Manufacturing industry could be right up your alley. Careers in Manufacturing are available in a variety of industries such as: aerospace, furnishing, laboratory operations, metal fitting, engineering and boating, process manufacturing, mineral products, plastics, rubber, recreational vehicles and textiles, clothing and footwear. Structural Steel and Welding Trades workers, and Metal Fitters and Machinists are the trades most in demand in Manufacturing at present. There are thousands of Manufacturing businesses in Australia, employing almost one million people. New developments in sustainable Manufacturing aim to produce goods in an environmentally friendly and sustainable way while at the same time maintaining, if not improving productivity. This makes it a very interesting time to join this sector.



**Manufacturing**

### Possible job pathways

- Glaziers
- Graphic Pre-press Trades Workers
- Industrial Spraypainters
- Metal Fitters and Machinists
- Precision Metal Trades Workers
- Sheetmetal Trades Workers
- Structural Steel and Welding Trades Workers
- Wood Machinists and Other Wood Trades Workers
- Chemical, Gas, Petroleum & Power Plant Operators
- Electrical Engineering Draftspersons, Technicians
- Electricians
- Electronics Engineers
- Metal Casting, Forging & Finishing Trades
- Aircraft Maintenance Engineers
- Engineering Production Systems Workers
- Engineers (Chemical and Material)
- Industrial, Mechanical and Production Engineers
- Mechanical Engineering Draftspersons, Technicians
- Food and Drink Factory Workers
- Production Managers
- Printers
- Printing Assistants and Table Workers
- Signwriters
- Jewellers
- Product Assemblers

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