ENGINEERING PRODUCTION WORKER

Do you want to work in an exciting and ecofriendly industry that actively encourages women to participate and provides the following opportunities?

- **gain transferrable skills & knowledge**
- **learn new and evolving processes**
- **work with the latest technologies**
- **capacity to advance your career**
- **become a specialist in your field.**
- **flexible shifts and job roles**

OVERVIEW OF INDUSTRY

Australia's metal, engineering, and associated industries is highly diverse, with many businesses producing a wide variety of products, structures, articles, parts, components, materials and substance that are used in a range of economically significant downstream industries. Construction, manufacturing, energy, mining and agriculture industries are the main consumers of these products. Most businesses in these industries are small to medium enterprises. In these industries manufacturing is the process of transforming raw materials or parts into finished products or goods through the use of technology, tools, labour, and processes; increasingly through additive or advanced manufacturing technologies, techniques and practices that add value to the original form.
Businesses in these industries employ many different experts, including engineers, paraprofessionals, technicians, process specialist workers, engineering trades, and other allied specialists in the conversion process.

WHAT DOES A PRODUCTION WORKER DO

Engineering production workers perform a range of routine production process tasks involving the manufacture, making, assembly, processing, treatment, fabrication and/or preparation of products, structures, articles, parts or components, materials, or substances. It may include operating plant and machinery and computer-controlled equipment; assembling engines, vehicles, component parts, rolling stock, machinery, structures, jewellery, aerospace and defence equipment, electrical/electronic equipment/components; casting moulds; forging, pressing or rolling products; refining and treating metals/mineral ore; firing ceramics, clay, glass; building boats; manufacturing tools, fibreglass products, automotive parts, medical equipment, piping, tubing, cables, industrial gases, abrasive wheels and stones, tapes, liquid products, cork products, other non-metal products; or handling and shaping an array of products, materials or substances. Applying also, quality systems and safe work practices to work processes.

"I love working as a production worker because I am learning new skills every day and contributing to the production of essential resources."

For further information or advise contact
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MAE MANUFACTURING, AGRIFOOD AND ELECTROTECHNOLOGY

Australian Government

National Careers Institute

ENGINEERING PRODUCTION WORKER

Selection Criteria:

*Well-developed hand-eye coordination
*The ability to communicate well, both oral and written skills
*Ability to operate a computer and equipment
*The ability to work well under pressure and meet deadlines
*An eye for detail and following precise work instructions.
*The ability to work well on projects, both independently and as part of a team
*Ability to use precise and repeated motions
*Competent at maths and measuring
*Physically fit and able to work in a range of environments that may include high temperatures

TASKS YOU MAY BE REQUIRED TO DO

*Interpret engineering drawings and specifications to determine job requirements
*Use instruments, tools and measurement devices
*Set up, operate and adjust production plant and associated equipment
*Operate computer-controlled equipment
*Assemble products, structures, articles, parts or components
*Casting, forging, pressing, rolling, refining, treating products, materials or substances
*Build products, structures, articles or parts
*Manufacture or make products, structures, articles, parts or components, materials or substances
*Handle or shape products, materials or substances
*Apply quality systems and safe work practices
*Prepare and plan safe work schedule

Training Requirements and Pathways

Entry level

The pre-apprenticeship qualification MEM20219 - Certificate II in Engineering - Production Technology or MSM20116 - Certificate II in Process Manufacturing can be completed as an SBAT or trainee and is the minimum requirement to commencing work as an engineering production worker. This usually takes 12- 24 months to complete.

Trade qualification:

MEM31719 - Certificate III in Engineering - Casting and Moulding Trade, MEM31519 - Certificate III in Engineering - Toolmaking Trade, MSM30116 Certificate III in Process Manufacturing, and MSA30208 - Certificate III in Manufacturing Technology or PMA30120 - Certificate III in Process Plant Operations are the recognised trade qualifications for this occupation.
To become an engineering production tradesperson, you usually need to undertake an apprenticeship in engineering production or process manufacturing. The engineering production or process manufacturing tradesperson apprenticeships usually take 42 to 48 months to complete and is also available as school-based apprenticeships.
You may also need to obtain the following –

- driver's license
- aptitude testing

Income and future opportunities

This occupation has a large variation in wages due to how diverse the role can be; trainees and apprentices are usually paid the award wage but employers experiencing a skills shortage may pay above the award to new employees. According to Fairwork Australia a first-year apprentice will receive $48,000 per year when they commence and up to $75,000 plus bonus's after 8 years of experience.
The industry is currently experiencing a skills shortage so there are many opportunities to gain employment as an engineering production worker.

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