



Manufacturing Skills Australia

Sustainability

Sustainability skills

Sustainability is recognised as a key driver for new directions within manufacturing enterprises and across the entire value stream. Manufacturing Skills Australia has identified key areas of skills that can support the viability of an organisation while at the same time benefiting the environment in which the organisation operates. These include skill areas such as:

- planning and implementing strategies to reduce water and energy use, waste and emissions
- developing opportunities for recycling, reuse and remanufacturing
- making product improvements and designing 'clever' products
- improving day to day operational resource efficiency
- measuring and reporting environmental/sustainability performance
- assessing environmental risks and developing responses
- managing the supply chain

Qualifications for sustainability

To address these emerging skill needs MSA has developed a series of leading edge qualifications in the new MSS Sustainability Training Package. The qualifications cover sustainable operations and environmental monitoring and technology, and focus on helping operations become more sustainable through improved productivity and efficiency and meeting their environmental responsibilities.

The MSS Sustainability Training Package provides the following sustainability qualifications:

- Certificate IV in Sustainable Operations
- Diploma of Sustainable Operations
- Graduate Certificate in Sustainable Operations
- Certificate IV in Environmental Monitoring and Technology
- Diploma of Environmental Monitoring and Technology
- Graduate Certificate in Environmental Management

Sustainable operations

The Sustainable Operations qualifications provide the skills and knowledge required to improve an organisation's sustainability.

The Certificate IV in Sustainable Operations applies to operators and team members who require skills in identifying, implementing and reporting on sustainability initiatives at the operational level.

The Diploma of Sustainable Operations applies to managers, technicians and paraprofessionals who are responsible for driving, monitoring and reporting on sustainability across the whole of the enterprise and the value chain.

The Vocational Graduate Certificate in Sustainable Operations targets senior managers who set the organisation's strategic direction on sustainability and provide leadership and planning for the deployment of the sustainability strategy.

Environmental monitoring and technology

The Environmental Monitoring and Technology qualifications provide skills in environmental science and technology as applied in an enterprise or in a regulatory authority.

The Certificate IV in Environmental Monitoring and Technology applies to employees with responsibilities such as monitoring ecosystems and undertaking environmental sampling and testing.

The Diploma of Environmental Monitoring and Technology targets employees in industry or government/regulatory roles who require skills in auditing, measuring and monitoring the impact of activities on local land, water, air and ecosystems and in developing strategies to minimise the impact and/or remediate/rehabilitate sites.

Environmental management

The Vocational Graduate Certificate in Environmental Management targets senior managers, technicians and (para-) professionals in industry or regulatory authorities who require advanced environmental monitoring, technology and data analysis skills and detailed knowledge of environmental management policies and legislative requirements.

Examples of careers within sustainable operations and environmental monitoring and technology

- Carbon reporting analyst
- Environmental assistant
- Environmental compliance officer
- Environmental manager
- Environmental officer
- Environmental protection officer
- Environmental site coordinator
- Environmental sustainability coordinator
- Hydrometric officer
- Sustainability engagement manager
- Sustainability manager
- Technical assistant
- Water catchment manager