



# Careers in manufacturing: marine

## Vessel design

**Marine vessel designers design and oversee the construction, survey and repair of marine craft for the commercial and recreational markets, such as ferries, boats, yachts and dinghies.**

Marine vessel designers may:

- prepare preliminary designs by consulting with clients
- estimate the initial vessel construction costs
- work out the most suitable size for a vessel and make sure that proposed designs meet performance and cost requirements
- determine the proportions and shape of the hull
- design recreational, accommodation, engine and storage areas
- make calculations relating to the structural and mechanical aspects of design, construction and repair
- plan, supervise and evaluate trials (dry and wet) of the vessel
- organise repairs and alterations to vessels
- research better ways for vessels to move through water.

### ***Relevant qualifications:***

- Certificate II in Engineering
- Certificate II Engineering – Composites Trade
- Certificate III in Marine Craft Construction
- Certificate IV in Engineering
- Diploma of Engineering (Advanced Trade)
- Advanced Diploma of Engineering.

*This information sheet has been produced with assistance from the Australian Government.*

