

MARITIME TRANSPORT

JOB TITLE

Ship Designer

JOB DESCRIPTION

Ship designers design, build, maintain and repair all types of boats from pleasure crafts to naval vessels, including submarines. They analyse floating structures and take various features into account for their designs such as the form, structure, stability, resistance, access and propulsion of hulls.

KNOWLEDGE AREAS

- Higher education in Naval architecture
- Mathematics
- Mechatronics
- CAD Software
- CAM Software
- Technical and Maritime English

SOFT SKILLS

- Ability to take initiatives and make decisions
- Creative & innovative thinking
- Critical thinking
- Ability to receive multiple inputs
- Business communications skills
- Written & verbal communication skills
- Precision to detail
- Ability to work and co-operate with others as part of a team
- Problem solving-skills
- Compliance with norms/integrity
- Self-leadership
- Self-confidence

HARD SKILLS

- Prepare engineering designs
- Calculate vessel stability
- Use CAD Software
- Use CAM Software
- Ensure vessel compliance with classification societies shipbuilding standards
- Use maritime and technical English
- Execute analytical mathematical calculations
- Ensure compliance with environmental legislation
- Identify energy needs
- Integrate new products in manufacturing
- Maintain robotic equipment
- Create technical plans
- Perform test run

COMMENTS

To see if and how this occupation is regulated in EU Member States, EEA countries or Switzerland please consult the ESCO occupations pillar in the following link: <https://esco.ec.europa.eu/en/classification/occupation>