

Engineering Industry

Elevate your career through College **C**, or an Apprenticeship **A**

Job Roles (can include)

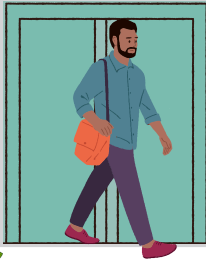
Skills (can include)

Knowledge and Behaviours (can include)

Level 4+

Senior Management **A**

A



- Lead Engineer
- Project Engineer
- Technical Lead
- Acquisition Engineer
- Systems Engineer
- Test Engineer
- Systems Architect
- Systems Designer
- Systems Analyst
- Engineering Manager

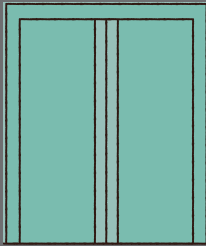
- Select appropriate lifecycle for a system or element of a system and establish its lifecycle stage
- Define context of a system from a range of viewpoints including system boundaries and external interfaces
- Use appropriate methods to analyse stakeholder needs to produce good quality, consistent requirements
- Identify, analyse, recommend treatment, and monitor and communicate risks and opportunities throughout project

- Systems engineering lifecycle processes
- The role a system plays in the super system of which it is a part
- The characteristics of good quality requirements and the need for traceability
- The distinction between risk, issue, and opportunity and the different forms of treatment available
- The benefits and risks associated with modelling and analysis
- How creativity, ingenuity, experimentation and accidents or errors, often lead to technological and engineering successes and advances

Level 4

Junior to Middle Management **A**

A



- Costing engineer
- Installation engineer
- Manufacturing production engineer
- Process engineer
- Production support engineer
- Quality engineer Test and commissioning engineer

- Read and extract relevant engineering and manufacturing related data and information
- Use project management tools, such as Strengths, Weaknesses, Opportunities, Threats (SWOT)
- Use problem solving tools
- Communicate using the appropriate method for the audience such as, formal and informal presentations, written reports, verbal, electronic
- Use computer based software systems or packages such as Computer Aided Design (CAD), Data Analytics

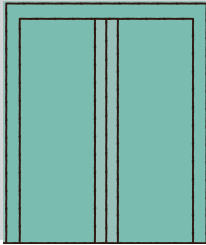
- Champions the importance of adherence to the organisation's Environmental, Health and Safety management systems
- Operates in a systematic, proactive and transparent way
- Actively promotes the case for the adoption of emerging and advanced engineering and manufacturing technologies to optimise performance.
- Takes full responsibility for own professional development
- Complies with statutory and organisational health and safety regulations and policies at all times

Level 3

Experienced to Supervisory **C**
A

C

A



- Aerospace inspection technician
- Nuclear inspection technician
- Quality compliance officer
- Quality control technician
- Technical support technician

- Follow health and safety and engineering regulations, standards, and guidance.
- Follow procedures in line with environmental and sustainability regulations, standards, and guidance.
- Analyse engineering and manufacturing data
- Apply scientific, technical or engineering principles.

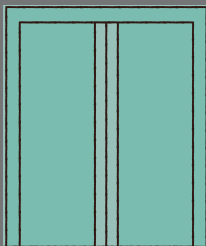
- Take personal responsibility for and promote health and safety
- Considers the environment and sustainability
- Support diversity and social inclusion in the workplace
- Respond and adapt to work demands and situations
- Collaborate within teams, across disciplines and stakeholders
- Seek learning and development opportunities, continual professional development (CPD).

Level 2

Entry level employment to Intermediate **A**
C

A

C



Engineering Operative can specialise within the following roles:

Maintenance, Mechanical Manufacturing Electrical & Electronic, Fabrication, Materials, Processing or Finishing and Technical Support



- Work safely at all times, identifying risks and complying with health and safety legislation and regulations
- Demonstrate effective communication skills which include oral, written, electronic
- Complete documentation accurately, efficiently and legibly using the correct terminology
- Select and use appropriate tools, equipment and materials to carry out the engineering operation

- How to obtain the necessary job instructions, engineering drawings and specifications and how to interpret them
- Relevant statutory, quality, environmental compliance procedures/systems, health and safety regulations
- Their individual roles and responsibilities within the organisation and the flexibility required to support the company targets
- Engineering operational practices, processes and procedures
- Potential problems that can occur within the engineering operations and how they can be avoided