

# Engineering and Manufacturing Technologies

## Electrical and Electronic Engineering

If your business is involved in electrical and electronic engineering, you can build and develop the skills of your workforce through NVQs. These have a flexible syllabus that can be tailored to your specific requirements, as well as the strengths and interests of individuals. You get a more motivated and focused workforce and they get the increased confidence of having qualifications and a meaningful career path.

### What does the course cover?

**In the Electrical and Electronic Engineering NVQs, assessment is based on a combination of compulsory and optional modules. These include:**

- Complying with statutory regulations and safety requirements
- Interpreting engineering drawings and documents
- Designing electronic circuit board layouts using CAD tools
- Evaluating and recommending circuit design options
- Providing technical guidance to others
- Identifying and following clean work area protocols
- Monitoring and analysing data from semiconductor processes
- Selecting and preparing materials and components
- Monitoring and analysing data from electronic circuit manufacturing processes
- Adjusting and sustaining electronic circuit manufacturing processes
- Selecting and preparing materials and components for manufacturing
- Checking the compliance of electronic components

In conjunction with other qualifications, NVQs can form part of an apprenticeship.

### How does it work?

Your employees will be assessed as to their competence in each area. This is measured in a variety of ways including practical assessment, written and oral questions, project and assignment work. Our assessors will look for visual evidence of skills and your employees will need to build up a portfolio of their work. As the assessment is continuous, employees with previous experience can progress more quickly.

You will receive feedback as to which modules have been achieved and which need more work. Once all modules are complete, the certificate is attained.

### Measurable business benefits

- Your business will benefit from higher skill levels and standardised working practices, which will lead to more efficiency and greater expertise
- Your employees will be motivated to improve their skill levels, gain recognition for their work and attain qualifications. They will feel like valued team members with a clear career path ahead of them
- There will be less risk of safety critical incidents, accidents and injuries