

# Unit 30: Manufacturing Electronic Products

Learning hours: 60

NQF level 4: BTEC Higher Nationals – H2

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## Description of unit

This unit introduces the learner to the concepts and practices of producing electronic products. The fabrication of microelectronic devices and their applications in printed circuit boards (PCBs) are discussed and through-hole and surface mount devices compared. The design and production of single- and multi-layer PCBs are addressed. The design and fabrication of sheet metal and non-metal casings for electronic products covered and assembly processes are discussed.

## Summary of learning outcomes

To achieve this unit a learner must:

- 1 Investigate **electronic component technology**
- 2 Investigate **electronic component design parameters** for a range of devices
- 3 Describe the design, manufacture and testing of **Printed Circuit Boards**
- 4 Investigate the methods of **assembling electronic products** economically.