

Year 11 NCFE Level 1/2 Technical Award in Engineering

Course Overview

Unit 1: Engineering Principles (Written Exam – 40%)

- 1 hr 30 mins, externally assessed
- Topics: materials, processes, maths, drawings, health & safety, sustainability

Unit 2: Engineering Skills (NEA – 60%)

- Practical project set by NCFE (starting in October 2025)
- Assesses design, planning, making, testing, evaluation

How Parents Can Help

- Encourage revision of key maths (ratios, area, volume, tolerances).
- Quiz with flashcards: tools, materials, processes, H&S.
- Help with organisation of coursework deadlines – final deadline March 2026
- Ask them to explain processes out loud.
- Remind them neat drawings/annotations gain marks.

Key Content

- Materials: metals, polymers, composites – properties & uses.
- Processes: machining, joining, forming, CAD/CAM, 3D printing.
- Engineering Maths: formulas, units, ratios, forces, stress/strain basics.
- Drawing & Representation: orthographic, isometric, circuit diagrams.
- Health & Safety: PPE, risk assessments, workshop safety.
- Sustainability & Wider Issues: life cycle, efficiency, recycling.

Resources

- Revision Guides: Hodder/Illuminate NCFE Engineering ISBN 1398378968 £10 Amazon
- Websites: NCFE Qual Hub (specs & past papers), Technology Student.
- YouTube: Craig 'n' Dave, Engineering/DT tutorial channels.

Top Parent Tip

The BEST support is regular practice of **engineering maths** + testing knowledge of processes and materials.