

NCFE LEVEL 1/2 TECHNICAL AWARD IN ENGINEERING

This qualification shows learners how to:

- understand engineering disciplines
- understand how science and maths are applied in engineering
- understand how to read engineering drawings
- understand properties and characteristics of engineering materials and know why specific materials are selected for engineering applications
- understand engineering tools, equipment and machines
- produce hand-drawn engineering drawings
- produce Computer Aided Design (CADD) engineering drawings
- demonstrate production planning techniques
- demonstrate processing skills and techniques applied to materials for a manufacturing task
- understand how to create, present and review design work

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The disciplines that a learner will study within the qualification include:

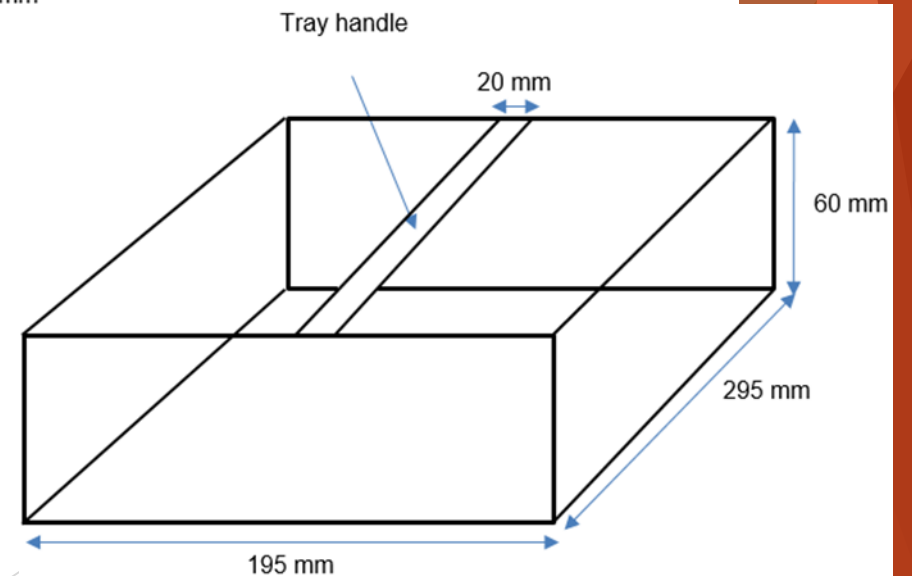
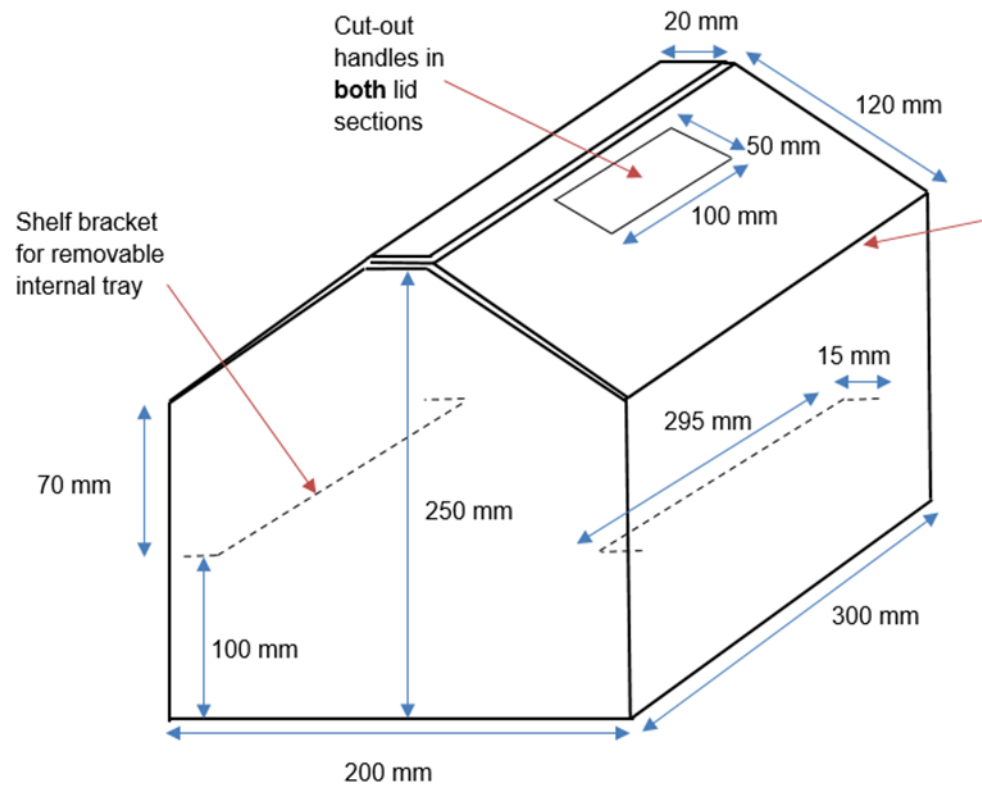
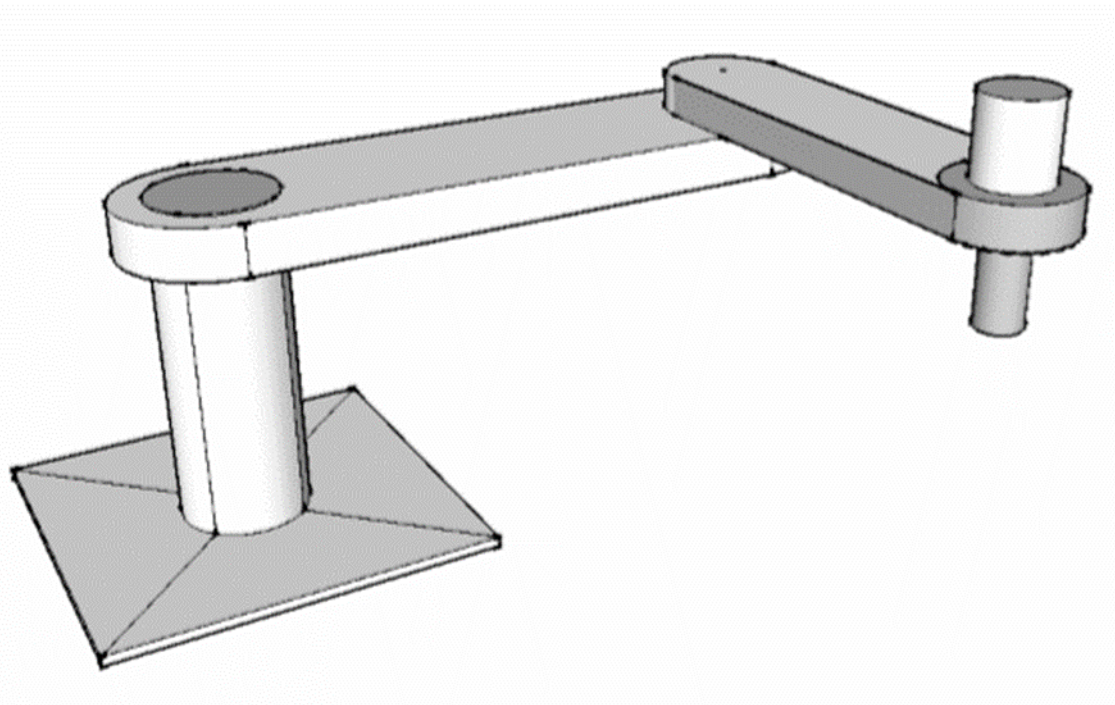
- ▣ mechanical
- ▣ electrical and electronic
- ▣ aerospace
- ▣ communications
- ▣ chemical
- ▣ civil
- ▣ automotive
- ▣ biomedical
- ▣ software.



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Learners will develop skills and knowledge:

- in adapting their own ideas and responding to feedback
- in evaluating their own work
- analysing data and making decisions
- that are essential for the engineering sector, such as understanding how to read drawings; responding to data; independent working; working to deadlines; efficient use of resources
- practical application of tools and machinery, whilst adhering to health and safety legislation and guidance
- an appreciation of materials technology and applications



Assessment of NCFE Engineering

Unit 1: Exam

90 minute exam

40% of the final grade

Unit 2: NEA (non examination assessment) - coursework unit

60% of the final grade.

Split into 5 differently weighted assessment objectives

Grading structure:

1	2	3	4	5	6	7	8	9
L1P	L1M	L1D	L2P		L2M		L2D	