

SCHOOL/COLLEGE PARTNERSHIP - SESSION 2017/18

Programme Title	National 4 Engineering Skills
Certificated/Non-Certificated	Certificated
Qualification / Level	SCQF Level 4
Programme Description	<p>The overall purpose of the Course is to ensure that candidates start to develop the generic and practical skills, knowledge and understanding and employability skills needed within an engineering sector.</p> <p>The Course focuses on Mechanical and Electrical/Electronic Engineering. This will allow the candidates to gain basic transferable skills which can be applied to many engineering areas. The generic employability skills are integrated into each mandatory Unit and should be developed in conjunction with the practical activities of each of these Units. This will help candidates to understand that the generic skills such as time-keeping, following instructions and carrying out quality checks of your own work are just as important as the practical skills which they will learn.</p>
Entry Requirement	<p>Application is at discretion of the school; pupils should have an interest in this area and have a successful interview by a member of college staff.</p> <p><i>The college will provide overalls and safety boots for successful candidates</i></p>
Content	<p>Candidates will undertake 2 of the following units:</p> <ul style="list-style-type: none"> • Mechanical (F19C10) • Electrical/Electronic (F19D10)
Target Year Group	S4-6
Day(s)	Monday and Wednesday Afternoon
Time	1400-1600 hrs
No of Places	14 maximum
Location	Fife College, Rosyth Campus, Rosyth
Start Date / End Date	Wednesday, 7 June 2017
Curriculum Team	Engineering Technologies
Curriculum Contact	Dougie Knox

NATIONAL 4 ENGINEERING SKILLS- Units within the Course and outcomes assessed

F19C10 - Mechanical

This Unit is designed to be the first attempted on the Course. Candidates are required to select the correct tools and materials required to safely manufacture an artefact. During the manufacture, candidates will read simple engineering drawings, measure and mark, select appropriate materials and work to specified tolerances. Embedded into the practical activities of this Unit are the employability skills that employers value. Although it is envisaged that all employability skills will be developed in this Unit, not all will be assessed.

OUTCOMES

- 1 Identify and use tools to measure and mark selected engineering materials.
- 2 Identify, select and use a range of metal working hand tools.
- 3 Manufacture an artefact(s) from simple working drawings.
- 4 Review and evaluate own employability skills in practical engineering contexts.

F19D10 - Electrical/Electronic

In this Unit candidates will select the correct tools and components required to construct a basic functional extra low voltage electrical/electronic circuit from a given diagram and specification. Embedded into the practical activities of this Unit are the employability skills that employers value. Although it is envisaged that all employability skills will be developed in this Unit, not all will be assessed.

OUTCOMES

- 1 Identify, select and use a range of hand tools to terminate cables and test electrical/electronic cables/components.
- 2 Identify and use simple electrical/electronic components.
- 3 Construct and test a simple circuit.
- 4 Review and evaluate own employability skills in practical engineering contexts.