Resource Menu

Below is a selection of the resources we provide for the Cambridge Nationals Engineering qualifications...

Qualifications Calculator

An Excel based tool to help the teacher ensure that their learners achieve the required number of credits for their chosen qualification and meet the mandatory

requirements. Teachers also

have the option to generate a personal print-out for learner portfolios or other records.

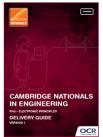


Delivery Guide

Each guide contains a range of lesson

ideas with associated activities that teachers can use with their learners. The guide is structured by learning outcome so the

teacher can see how each activity helps them cover the specification.



Project Approach to Delivery

The Project Approach to Delivery shows how by setting learners a project, they could

achieve a number of units. Learners could improve their interest in engineering by studying through

projects such as the F1 in Schools™ Technology Challenge, Siemens' Energy Recovery, Energy Transformation, Powering the Future and SMART Homes.





Maths. Science and ICT in

Engineering

Progress

Maths, Science and ICT in Engineering can show

An Excel based tracking document to help the

OCR

you how GCSE Maths, GCSE Science and Cambridge Nationals in ICT units relate to Cambridge Nationals

teacher monitor their

learners' progress

qualification both

individually and as a

throughout the

cohort.

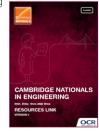
in Engineering units, indicating how themes for teaching, eg, force x distance.



Resources Link

An e-resource that provides teachers with links to a

range of teaching and learning websites and materials, including videos, data sets and other online content to support the teacher with the delivery of their subject.





Skills guides are not specific to a particular qualification, but cover topics that could support a range of qualifications, for example Communication, Legislation or Research Skills.



Unit Introduction **Presentations** Short PowerPoint presentations introducing each unit. Each will look at the skills and

knowledge that the learner will gain from the unit and give some

content (like real life examples or questions) to introduce the learner to the unit's content.



Lesson Element

Task sheets with accompanying teacher instructions. Each offers the teacher a creative way

of encouraging their learners to engage with the topic, with individual and group exercises, research activities and the opportunity to develop English and maths skills.



Further information:

To see examples of these resources for Cambridge Nationals go to: http://www.ocr.org.uk/qualifications/by-type/cambridge-nationals/

To see the Professional Development website, go to: http://www.ocr.org.uk/i-want-to/find/professional-development/

We'd like to hear your views about these resources, email to: ResourcesFeedback@ocr.org.uk

A quick guide to explain when and how the Cambridge Nationals Resources could be used

CPD Advice and Guidance on Admin Tools (AT) **Teaching Support Tools** (TST) face to face events Delivery Guide online training available Maths and Science in from Professional Engineering Project Approach to Delivery Skills Guides **Resources Links** Skills Guides **CPD** Excel tool to ensure the vith the QC (AT) barred combinations. Excel tool to record learners' names Set up the and ensure the correct units are **Progress** selected for the learners, ready to racker (AT) start recording their progress. Record the teacher's grade per Update the Learning Outcome as the learners Plan **Progress** progress through their units. Overall delivery Tracker (AT) grade is automatically calculated. (TST) OCR Moderators must confirmed the are also identified. learners' grade following moderation.

In the classroom • (CT)

Show the learners the **Unit Introduction Presentation**. This will 'set the scene' for the learner and let them know what to expect. These presentations could also be used at Open or Parents' Evening.

Lesson Elements are identified to a specific unit and offer activities which help the learners to understand various concepts or build on their existing knowledge. Lesson Elements are in two parts; Teacher Instructions/answers and Learner Task sheet. Most **Lesson Elements** are pdf and printable, some are on-screen interactive as well.

Skills Guides can help review/refresh skills in a variety of topics areas. See any Cambridge Technicals web page to see the Skills **Guide** pdf portfolio. More **Skills Guides** currently in production.

Classroom Tools (CT)

- **Unit Introduction** Presentation
- **Lesson Element**

correct units are selected for the learners, including any

Use the **Delivery Guide** to plan lessons. **Delivery Guides** are structured by Learning Outcome and give suggested timings for a range of activities. English and maths skills development opportunities

Maths and Science in Engineering can show you how GCSE Maths and GCSE Science units relate to Cambridge Nationals in Engineering units, indicating how themes for teaching, eq. force x distance.

Project Approach to Delivery suggests how learners could achieve a number of units by setting them a specific project such as the FI in Schools™ Technology Challenge, Siemens' Energy Recovery, Energy Transformation, Powering the Future and SMART

Use the **Resources Links** to check out some other resources which teachers might find useful.

Skills Guides can help review/refresh skills in a variety of topics areas. See any Cambridge Nationals web page to see the Skills **Guide** pdf portfolio. More **Skills Guides** currently in production.

Further information:

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