

# ALWAYS LEARNING

**Royal Academy of Engineering, 28 May 2012**

**Presenter: Mike Deacon, Principal Standards Verifier for Engineering**

# Engineering in the UK

“The engineering sector continues to be a huge success story. It generated £1.15 trillion in turnover in the year ending March 2010: 24.9% of the turnover of all businesses in the UK. The sector also employed 5.6 million people across 551,520 enterprises”

“Examination of the Sector Skills Assessments for the 10 engineering-related Sector Skills Councils shows that the estimated requirement for employees over the next 5-10 years will be an additional 2,217,500”

Source: Engineering UK, 2012

# Your Curriculum

GCSEs match the requirements of Schools' Key Stage 4 provision:

**GCSE in Engineering**  
**GCSE in Manufacturing**

GCSEs are well established and moving into Linear Delivery *from Sept 2012*

GCSEs count in Schools' Headline Performance Measures (check value per subject x 1 GCSE)

# Your Curriculum

The schools sector, especially those with Sixth Forms, are concerned about provision that matches the requirements of Key Stage 5 and fits alongside GCE / 'A' level provision:

## Applied GCE in Engineering

- A well established provision
- Attracts UCAS points
- Remains in place as long as national criteria remain in place

# Your Curriculum

## 14-19 Diploma in Engineering and 14-19 Diploma in Manufacturing and Product Design

**M&PD\*** (Ofqual has withdrawn the Diploma Aggregation Service. PL will be recognised in the 2014 Headline Performance Measures)

- Engineering Diplomas were widely adopted by centres, are supported and valued by industry and the RAE
- PL currently has GCSE equivalence at L1 and L2; and at L3 attracts UCAS points
- Remains in place and L2 is listed within the Headline Performance Measures\* (check value, 1 GCSE)

*\* M&PD to be reviewed Sept 2012*

# Your Curriculum

**BTEC** is and remains a strong brand

BTECs in Engineering – numerous and varied qualifications to meet the needs of industry

A well established provision with a Next Generation suite from Sept 2012

BTEC QCF remains as Technical Certificates, and Level 2 will be included in the School Headline Performance Measures, 2014

# Your Curriculum

**BTEC** – a valued qualification

Encompasses and reflects the diverse needs of the Engineering industries

## BTECs in Engineering QCF Qualifications Level 1

- Edexcel BTEC Level 1 Award in Engineering
- Edexcel BTEC Level 1 Certificate in Engineering
- Edexcel BTEC Level 1 Diploma in Engineering

# Your Curriculum

## BTECs in Engineering QCF Qualifications Level 2

- BTEC Level 2 Certificate in Engineering
- BTEC Level 2 Extended Cert in Engineering
- BTEC Level 2 Diploma in Engineering
- BTEC Level 2 Dip in Engineering (Electronics)
- BTEC Level 2 Dip in Eng (Maintenance)
- BTEC Level 2 Dip in Eng (Manufacturing)



# Your Curriculum

## BTECs in Engineering QCF Qualifications Level 3

Examples from the full BTEC Level 3 suite:

- BTEC Level 3 Certificate in Engineering
- BTEC Level 3 Subsidiary Dip in Engineering
- BTEC Level 3 90-credit Dip in Engineering
- BTEC Level 3 Diploma in Engineering
- BTEC Level 3 Extended Dip in Engineering

Did you know? **90-credit Diploma** added Nov 2011

# Your Curriculum

## BTECs in Engineering QCF Qualifications Level 3

More examples from the full BTEC Level 3 suite:

- BTEC Level 3 Dip in Aeronautical Engineering
- BTEC Level 3 Extended Diploma in Aeronautical Engineering
- BTEC Level 3 Dip in Manufacturing Engineering
- BTEC Level 3 Extended Diploma in Manufacturing Engineering

# Your Curriculum

## BTECs in Vehicle Technology QCF Qualifications Level 2

- BTEC Level 2 Certificate in Vehicle Technology
- BTEC Level 2 Ext Cert in Vehicle Technology
- BTEC Level 2 Diploma in Vehicle Technology
- BTEC Level 2 Diploma in Vehicle Technology (Motor Sports)

# Your Curriculum

## BTECs in Vehicle Technology QCF Qualifications Level 3

- BTEC Level 3 Subsidiary Diploma in Vehicle Technology
- BTEC Level 3 Subsidiary Diploma in Vehicle Technology (Motor Sports)
- BTEC Level 3 Diploma in Vehicle Technology
- BTEC Level 3 Dip in Vehicle Tech (Motor Sports)
- BTEC Level 3 Extended Dip in Vehicle Tech
- BTEC Level 3 Extended Diploma in Vehicle Technology (Motor Sports)

# Higher Qualifications

Many FE Colleges are valuing and returning to the BTEC brand of HNs:

## **BTECs in Vehicle Technology QCF Qualifications Level 4 and 5**

- BTEC Level 4 HNC Diploma in Automotive Engineering
- BTEC Level 5 HND Diploma in Automotive Engineering

# Higher Qualifications

Also:

## BTECs in Electrical and Electronic Engineering QCF Qualifications Level 4 and 5

- BTEC Level 4 HNC Diploma in Electrical and Electronic Engineering
- BTEC Level 5 HND Diploma in Electrical and Electronic Engineering

# Higher Qualifications

## BTECs in General Engineering QCF Qualifications Level 4 and 5

- BTEC Level 4 HNC Diploma in General Engineering
- BTEC Level 5 HND Diploma in General Engineering

Now lets take a look at the web

<http://www.edexcel.com/Pages/Home.aspx>

# NVQ Qualifications

FE Colleges and Schools use PEO and PMO:  
**Edexcel Extended NVQ Qualifications**  
**Level 1 and 2**

- NVQ Level 1 in Performing Engineering Operations (PEO)
- NVQ Level 1 in Performing Manufacturing Operations (PMO)
- NVQ Level 2 in PEO
- NVQ Level 2 in PMO

These are favourites and there are many more

<http://pearsonwbl.edexcel.com/pages/homepage.aspx>



# NVQ Qualifications

Many FE Colleges deliver the practical elements of Engineering including:

## **Edexcel Extended NVQ Qualifications Level 2 and 3**

- Aeronautical Engineering
- Engineering Maintenance
- Engineering Technical Support
- Engineering Leadership (to Level 4)

# Development – so what's new?

## Next Generation BTECs

### Level 2 – suite from Sept 2012

- BTEC First Award 120glh
- BTEC First Certificate 240glh and
- BTEC First Extended Certificate

### •BTEC First Diploma 480glh -Sept 2013 tbc

\*Headline Performance Measures - each qualification counted as a single Subject. Accredited qualifications must be on the approved list to be counted in the HPM for 2014.

### Level 3

BTEC Nationals – in development Sept 2013

**Thank you for listening**

**Any Questions?**