Degree Apprenticeships for Build Off Site

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CCCU Vision

Growing the economy through engineering, science and technology

- Secured £13M in Local and National Government
- Inclusive Education
 - Engineering Curriculum
 - Industry Co-design
 - Social Engineering (BAME, Gender, Socioeconomic)
- Full-time & Apprentices
- New Facilities 2020 £50M







- "Industry-Ready" Engineering Graduates
- Quality staff, teaching, research, and facilities
- CDIO
- Industry 4.0 focus



Demystify Apprenticeship Standards Qualifications

- Shortfall, 22,000 Engineers per year (EngineeringUK, 2018)
- Qualifications/Assessment
 - Non-integrated, separate
 - Degree (HEI qualification)
 - **End Point of Assessment**
 - End Point of Assessment
 - no HEI qualification award

not recognised by Engineering Council or Engineering Institutes Currently

- Level 4 HNC
- Level 5 HND/FDSci/FDEng
- Level 6 BSc/BEng
- Level 7 PgDip/MEng
- Level 7 MSc/MBA

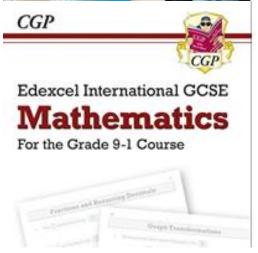




Apprenticeship Practice

- 20% Off-job training
- Off-job training to be hours of employment
 - 9-5 employment = training
 - Weekend employment = training
- EPA Level 2 English and Maths
 - GCSE English and Maths
 - Functional Skills Level 2 English and Maths







Degree Apprenticeship Off-Job Learning

Typical UK HEI

- Level 4 18 months
- Level 5 3 years
- Level 6 5-6 years
- Level 7 18 months 5 years

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- Level 4 1 year
- Level 5 2 years
- Level 6 3 years
- Level 7 12-18 months







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- Trimesters per year
- Trimester consists of
 - 10 teaching weeks
 - 3 assessment weeks
 - Two 20 credit modules or 40 credit module
 - 60 hrs in class
 - 40 hrs CCCU support per employer
 - 300 hrs self-study
 - Assessments where possible
 - Work-based
 - CDIO (Conceive, Design, Implement and Operate)
- Delivery
 - 1 day a week
 - Five 5 day block release





Degree Apprenticeship Standards

- Manufacturing Engineer (Degree) Apprenticeship Standard
 - Approved
 - Qualifications (Degree and End Point of Assessment)
- Quality Improvement Standards
 - Improvement Practitioner (Level 4)
 - Approved
 - Qualification is End Point of Assessment Only
 - Improvement Specialist (Level 5) Pending
 - Improvement Leader (Level 6) Pending
- Postgraduate Engineer (Degree) Apprenticeship Standard
 - Approved
 - Qualifications (Postgraduate Diploma and End Point of Assessment)



Viability

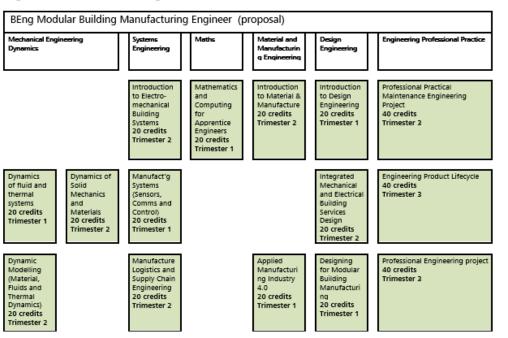
- 15-20 Degree Apprentices per year per HEI
- Share with other Manufacturing Employers

Level 4

Level 5

Level 6

- Generic Manufacturing Learning
- Cross-fertilisation
- Build-off-site
 - Bespoke
 - One HEI
 - Block Release





Alt Trailblazer

- Bespoke Degree Apprenticeship
- Led by
 - Employers
 - Institutes Build-off-site
- 2- 3 years approved
- Recommend include HEI









Summary – Degree Apprenticeships

- Qualifications Non-integrated and EPA
- Build-off-site needs Skilled Degree Engineers
 - Engineering for Advance Manufacture
 - Bespoke or Generic Manufacture Engineer (Degree)

Apprenticeship

- Day release v Block Release
- 3 years or 5 years
- Trail-blazer





Feel Free to Ask Questions?

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