Degree Apprenticeships for Build Off Site

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SKILLS GAP BUILD OFF-SITE

- Volumetric Modular Build skills Gap
- Craft and Skills Competency needed for on production line
- New Level 2 Construction Assembly Technician Standard
  - led by Industry Consortium,
  - but still to be approved by IfA
- Need Mechanical/Manufacture Engineers not construction Engineers
- Need High/Degree Skilled Mechanical/Manufacturing/Control/Technical Support Apprenticeship Engineers
WHAT ARE APPRENTICESHIPS STANDARDS?

All apprenticeships specified by:

• Apprenticeship Standards define;
  • Behaviors, knowledge and skills
  • Entry requirements, level, minimum duration, and qualifications

• Assessment Plan defines;
  • learning outcomes,
  • Grading
  • how assessment will operate

• Institute for Apprenticeship will define maximum funding banding

• Apprenticeship can only be delivered by a training provider which can offer the qualification

• Overseen by Institute for Apprenticeships (IfA)

www.canterbury.ac.uk/apprenticeships
**WHAT ARE HIGHER/DEGREE APPRENTICESHIPS?**

- **Apprenticeship at Level 2 and 3**
  - Level 2 = GCSE
  - Level 3 = A’level/BTEC/T-Levels = 2Es
  - Quality overseen by Ofsted

- **Higher apprenticeships at Levels 4 and 5**
  - Level 4 = HNC
  - Level 5 = FDEng/HND
  - Quality overseen by OFSTED

- **Degree apprenticeships at Levels 6 and 7**
  - (Level 6 = BEng and Level 7=MEng/MSc)
  - Quality overseen by OFSTED

- Apprentices work full-time (>30 hours per week)
- For new or existing employees of any age group

[www.canterbury.ac.uk/apprenticeships](http://www.canterbury.ac.uk/apprenticeships)
• Apprentices are paid by employers
• Training paid by employer, however overall cost;
  • Pay using Levy (if 0.5% of wage bill, if >£3M)
  • Pay 10% (if Non-Levy, government pays 90%)
  • Some Local GOV transferring Apprenticeship Levy to SMEs
• Cashback available from government
• Employer apprentice mentor
• 20% off-job study time (1 day in 5) mandatory
• 20%+ if apprentices do not have GCSE English & Maths
Growing the economy through engineering, science and technology

Secured £13.6M in government funding (SELEP, OfS and Charity)

Delivery in partnership with local companies to:

• Provide holistic and inclusive engineering solutions to meet societal challenges and local companies needs

• Provide access to high quality – staff, teaching, research, and facilities

• Create facilities in key locations across Kent reflecting the needs of the sector
Our Offer

- Co-design of curriculum with employer groups
- Delivery at any of our campuses or at employer locations (depending on numbers)
- Work-based learning and assessment fully integrated
- Mentor training programme including accreditation if desired
- Link tutor support in the workplace
- Completion of CCCU Apprenticeship degree in 3 years with no prior experience (as opposed to 5-6 at some HEIs)

www.canterbury.ac.uk/apprenticeships
• Shortfall, 22,000 Engineers per year (EngineeringUK, 2018)

• Professional status:
  • Our FT and Apprenticeship programmes working towards accreditation
  • Successful degree apprentices can apply for EngTech/IEng/CEng (depending on apprenticeship, programme accreditation and postgraduate study)

www.canterbury.ac.uk/apprenticeships
• 45 days a year of training and assessment
• Delivered as 1 day a week for 45 weeks or in week long blocks
• The assessments typically;
  • Are typically work related/based
  • Design to prepare apprentices for Apprenticeship End Point of Assessment (EPA)

www.canterbury.ac.uk/apprenticeships
• **Manufacturing Engineer (Degree) Apprenticeship Standard**
  • Approved
  • Qualifications (Degree and End Point of Assessment)

• **Control / technical support engineer (degree)**
  • 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)**
    • Approved
    • Qualification is End Point of Assessment Only
  • **Improvement Leader (Level 6)**
    • Approved
    • Qualification is End Point of Assessment Only

• **Postgraduate Engineer (Degree) Apprenticeship Standard**
  • Approved
  • Qualifications (Postgraduate Diploma and End Point of Assessment)
**BUILD-OFF SITE APPRENTICESHIP DEGREE**

### BEng (Hons) Manufacturing Engineering

#### Build Off-Site Pathway Blue Modules

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<th>Credits</th>
<th>Year</th>
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<td>Higher Education and Vocational Skills</td>
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<td>Introduction to Manufacturing</td>
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<td><strong>Level 5 (Year 2)</strong></td>
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<td>Dynamics of Fluid and Chemical Systems</td>
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<td>Dynamics of Mechanical and Electrical Design for Manufacturing</td>
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<td>Integrated Manufacturing and Electrical Design</td>
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<td>Integrated Manufacturing and Electrical Design for Manufacturing</td>
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<td>Engineering Lifecycle Design</td>
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<td><strong>Level 6 (Year 3)</strong></td>
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<td>Dynamics of Material, Fluids and Thermal Dynamics</td>
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<td>Applied Manufacturing Industry 4.0</td>
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<td>Design for Manufacturing</td>
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<td>Professional Applied Engineering Project</td>
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Cost Engineering Apprenticeships

- Manufacturing Engineer (degree) (£27,000, L6)
- Control / technical support engineer (degree) (£27,000, L6)
- Improvement Practitioner (£6,000, L4)
- Improvement Specialist (£9,000, L5)
- Improvement Leader (£15,000, L6 without degree)

www.canterbury.ac.uk/apprenticeships
• Opportunity for staff and build off site business:
  • Address skills shortage
  • Staff apply their learning to make tangible difference while learning
  • Up-skilling of staff
  • Provide career progression for Level 2/3 apprentices and other staff
  • Invest in staff and provide sustainable pipeline (reduce churn)
  • Utilise the Levy to invest in business
  • Influence the engineering curriculum and resources
Feel Free to Ask Questions