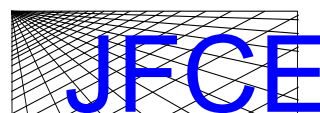
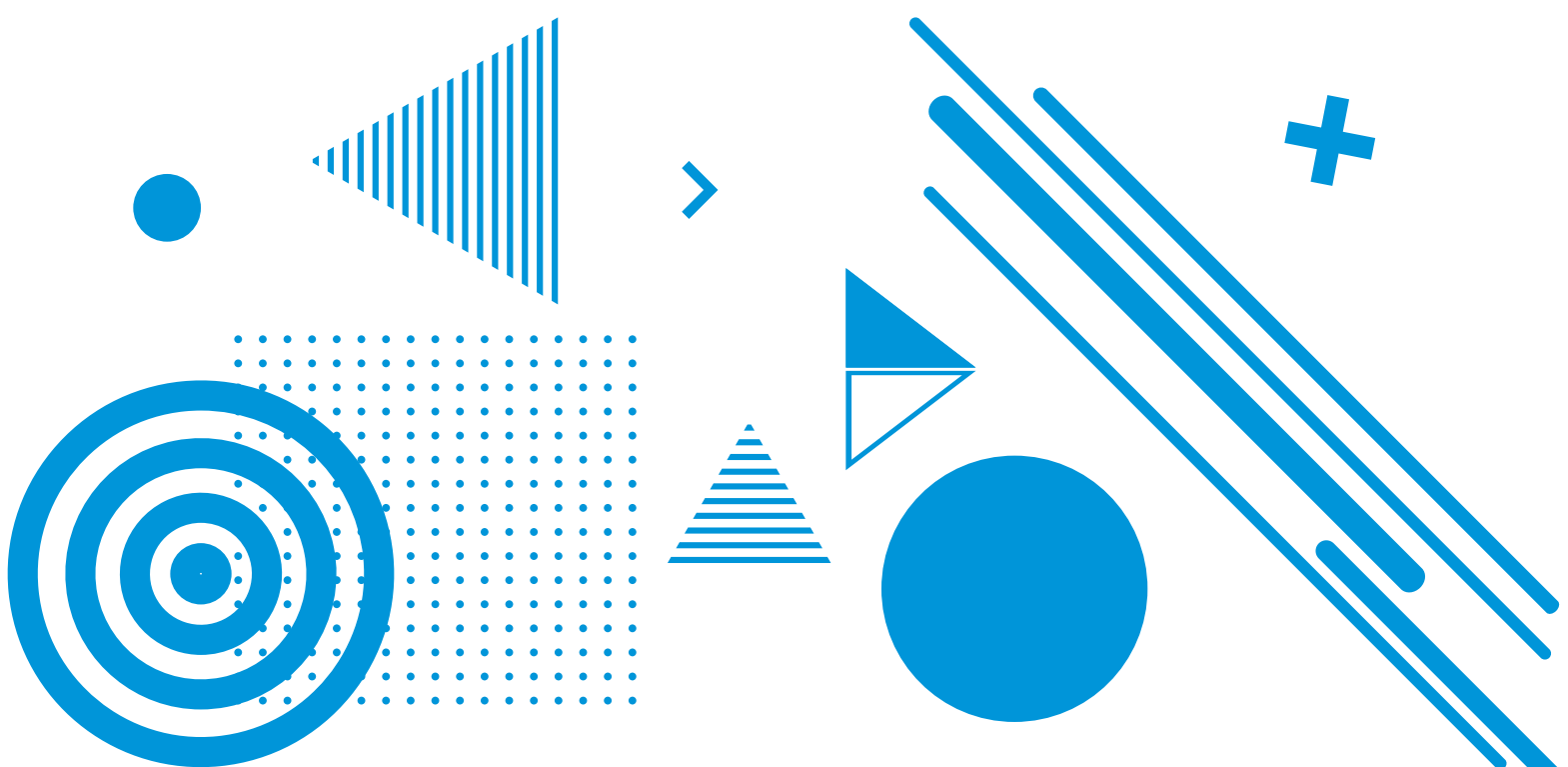




# HNC in Civil Engineering (Highlands) Information Sheet





# Introduction

The construction industry is vibrant in Jersey with many major projects currently undergoing construction or at design stage. It has been forecast that there are up to seven years worth of capital projects planned from the States of Jersey, let alone development by Andium, Ports of Jersey, private developers and private individuals.

The Channel Island Group of Professional Engineers (CIGPE) and the Jersey Federation of Consulting Engineers (JFCE) identified several years ago that there was a concern with the availability of engineers in the local market to handle all of these projects. CIGPE undertook a survey and identified a skills and personnel shortage at all professional levels (Engineering Technician, Incorporated Engineer and Chartered Engineer) with gaps being present both now and predicted in the future.

With the potential of over 30 potential vacancies to fill in the next five years, an effort was sought to address these skills gaps with local people, thus providing opportunities for people on the Island to gain a career in engineering. It would have been possible to fill some of these vacancies with people from outside the UK but the appetite for that is limited. Therefore, CIGPE, JFCE, Skills Jersey, the Institution of Civil Engineers (ICE) and Highlands College/University College Jersey (UCJ) have worked together to develop a programme of training to solve this need.

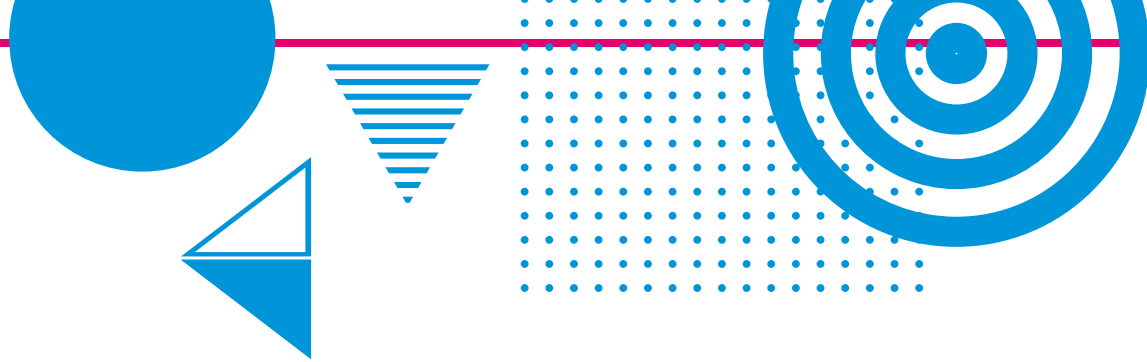
For the last 18 months we have been working to develop the Higher Apprenticeship. The local provision of the London South Bank University (LSBU) Civil Engineering pathway allows students and employers to have ICE accredited break points, therefore resolving the various levels of skills gaps mentioned. Having students employed and working not only helps the company but also helps the students get practical skills and knowledge during their study.

We believe that this Higher Apprenticeship is the best method of addressing the skills gap and supporting local students.

As some members of CIGPE and JFCE are acting tutors on the apprenticeship we look forward to meeting you in the future.

Thanks

CIGPE and JFCE



As we are heavily involved with CIGPE and JFCE, we have been involved with the development of the Higher Apprenticeship; due to this early on in the process of promoting this course, we met Jacob who had a couple of years training as a joiner after making a decision to defer going to university. We took him on before the course was confirmed and it is a decision we are glad about, in his last year with us, he has become an excellent technician with a very strong grasp of all of the specialist software and how the design process works and is now at a stage where he is undertaking design work.

We believe that this training process of working and studying is a great method to help fill some of our requirements, and as he progresses we will be able to use Jacob to fill out some of our more senior vacancies.

**Hartigan,** like many of the engineering firms in Jersey have been attempting to recruit at many levels from technician to chartered level.

# What is the Higher Apprenticeship (HNC) Civil Engineering? (2 years | Part-time)

## Why choose this degree

- Designed with the Civil Engineering sector in Jersey
- The first step on your career journey is becoming a civil engineer. Civil and structural engineers work on buildings of all kind, transport and communications infrastructure, including bridges, roads, tunnels, canals and other large structures
- Progress to a civil engineering degree (subject to negotiation and validation)
- Learn from industry specialists

## What I will learn

Civil engineering is a combination of many scientific specialisms, including mechanics, hydraulics, geotechnics (using knowledge of the earth's crust to solve construction problems), materials science and statistical analysis

You'll learn to apply mathematics and scientific knowledge (particularly physics) to real-life situations and problems that arise from creating and maintaining structures, taking into account environmental, financial, legal and ethical considerations.

### Year 1 (HNC)

Construction Practice  
Materials and Geology  
Engineering Mechanics B

### Year 2 (HNC)

Engineering Surveying  
Mathematics B  
Structures and Construction Technology

## Please note

All applications will be vetted by the UCJ (in line with LSBU recommendations) to assess eligibility for the programme. It is likely that the candidate will need to demonstrate a comprehension of higher level mathematics in order to progress onto the BEng (A- Level minimum B/C).

To progress to the BEng you must have been awarded an HNC with an average mark of 70% from four of the modules studied with a minimum of 60% in any one module.

## Entry requirements

A-Level Minimum EEE	BTEC National Diploma MPP	Access to HE With 45 passes
Equivalent Level 3 Qualifications worth 64 UCAS points supported by substantial relevant work experience	Level 3 qualifications Must include Maths and/or Physical Science	GCSE 5 GCSE's A-C (Grade 4 or above), including English and Maths or equivalent

For international students:  
IELTS score of 6.0 or Cambridge  
proficiency or  
Advanced Grade C

## Where I can go from here

Successful students will be able to progress onto the proposed BEng (Hons) Civil Engineering degree.



# Funding

As the first on-Island Higher Apprenticeship a new funding model was created and agreed upon in partnership with the engineering industry.

This model would include full Trackers mentoring support and any additional training funding.

Higher Apprenticeship students pay nothing towards the apprenticeship. The amount employers pay towards the apprenticeship is measured on turnover (and evidence by presence of GST certificate:

Turnover of company under £300,000 =

- 75% of the apprenticeship course fees are paid by Government
- 25% of the apprenticeship course fees are paid by the employer

Turnover of company over £300,000 =

- 50% of the apprenticeship course fees are paid by Government
- 50% of the apprenticeship course fees are paid by the employer

Higher Apprenticeship (HNC) Civil Engineering September 2019 (assuming no change in fees quoted from UCJ in partnership with LBSU) will have these costs associated to it for each student per year:

Total fees per year are £6,155

Turnover of company under £300,000 =

- 75% of the apprenticeship course fees are paid by Government £4,616.25
- 25% of the apprenticeship course fees are paid by the employer £1,538.75

Turnover of company over £300,000 =

- 50% of the apprenticeship course fees are paid by Government £3,077
- 50% of the apprenticeship course fees are paid by the employer £3,077

As this is a pilot for Higher Apprenticeships in Jersey:

- Skills Jersey have paid the set up costs for the qualification delivered by UCJ
- Industry are providing the necessary specialist equipment needed as well as expert tutors
- Trackers (as part of Skills Jersey) are creating caseload space to provide the highly successful mentoring/coaching that has led to a retention rate of 98% at Level 3 apprenticeships (future Higher Apprenticeships may incur a cost to increase this team to continue to provide this expert coaching support)

The proposed structure of the Higher Apprenticeship is as follows:

Higher Apprenticeship (HNC) in Civil Engineering (Highlands)

Year 1 - Level 4 part 1

Year 2 - Level 4 part 2

Year 3 - BEng part 1 - Proposed and subject to negotiation and validation

Year 4 - BEng part 2 - Proposed and subject to negotiation and validation

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Year 5 - MEng - Proposed and subject to negotiation and validation

Year 6 – MEng - Proposed and subject to negotiation and validation



To apply or to find out more  
about Trackers  
visit: [www.gov.je/trackers](http://www.gov.je/trackers)

