

BSc (Hons) Professional Practice in Civil Engineering^{*}

A professional and work-based degree delivered 'on-the-job'

The BSc (Hons) Professional Practice in Civil Engineering programme (**subject to approval*) has been specifically designed to provide progression from level 5 Civil Engineering and Construction programmes such as Foundation degrees, Higher National Diplomas or other equivalent courses. In addition, those with significant experience of working in the Civil Engineering or Construction industry can also gain entry to the programme through the accreditation of prior learning achieved through their work.

The programme is a professional and work-based learning degree that will enable you to negotiate work activities and projects with your employer / Workplace Mentor that will count towards the achievement of your degree. This means that to undertake the programme you will need to be employed (or in unpaid work) in the Civil Engineering or Construction sector. Work-based activities and projects that you negotiate will provide evidence of your learning in the workplace towards the successful completion of the following programme modules:

PROFESSIONAL DEVELOPMENT PORTFOLIO

This module is designed to prepare you for professional body membership and enable you to produce evidence of your professional competency and develop an in-depth understanding of the Civil Engineering industry environment. This will include the need for a high level of professional and ethical conduct in Civil Engineering. Assessment will require a portfolio including a Learning Log that evidences the achievement of professional competencies and a reflective account of your engagement with a professional network.

SPECIALIST PROJECT MODULES

You will complete three Specialist Project modules that are designed to enable you to develop your knowledge, understanding and skills in the key areas of **Managing Cost Awareness, Managing Project Standards and Managing Project Delivery**. The specific form of the required assessment for these modules will be negotiated and agreed with your employer / Workplace Mentor and Tutor. Typically, assessment will include a Reflective Project Report and Presentation or other relevant artefacts.

Entry requirements

Applicants will need to have:

- A level 5 qualification in Civil Engineering such as a Foundation degree, a Higher National Diploma or other equivalent qualification
- To be employed (or in equivalent unpaid work) in the Civil Engineering or Construction industry
- English language proficiency equivalent to IELTS 6.0

Alternatively, If you do not have a level 5 qualification but have worked in the Civil Engineering or Construction industry (normally for at least 5 years) you can gain credit for your prior experience of work by undertaking a Review of Learning module. This will support the development of a portfolio of evidence that demonstrates the learning gained through your experience.

This can result in the award of academic credit equivalent to a Foundation degree or Higher National Diploma thereby providing an alternative entry route to the BSc (Hons) Professional Practice in Civil Engineering programme.

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Professional Development Portfolio - 15 credits

- Supports preparation for Professional Body membership
- Develops and evidences the required professional competences in Specialist Modules
- Supports the integration of 'Cost, Quality and Time' perspectives in Civil Engineering practice
- Reinforces the Civil Engineering knowledge required to engage in work-based activities and projects
- In depth understanding of context of Civil Engineering and Construction industry environment

Managing Cost and Risk

20 credits

Management of Money

- Budgets
- Costs
- Cash Flow
- Profit
- Risk

Managing Project Standards

20 credits

Management of Quality

- Specification
- Standards
- Delivery
- Assurance
- Defects

Managing Project Delivery

20 credits

Management of Time

- Programme
- Planning
- Organisation
- Sequencing
- Scheduling

Project Proposal

15 credits

- Helps you to ask intelligent questions about a chosen aspect of your Civil Engineering practice
- Preparation for major project in Civil Engineering

Civil Engineering Project

30 credits

A Final Major Project that is designed to enhance a chosen aspect of Civil Engineering practice

- People
- Communication
- Technology
- Contracts
- Legislation
- Policy / Conduct
- Administration



Work Based Learning and Learning Support

WORK BASED LEARNING

You will be actively involved in a range of learning, teaching and assessment approaches as part of your work based learning programme. This approach puts you at the centre of your learning experience.

Your programme will require your active participation in learning activities both individually and through collaborating with your fellow students. Learning activities may occur both online and face to face but all require your full participation.

Engagement with your employer / Workplace Mentor will also be crucial to the development of your learning. This should include regular meetings to discuss and agree areas of your work that can be used to generate evidence of learning towards meeting programme module learning outcomes.

LEARNING SUPPORT

- You will be supported in achievement the programme learning outcomes in a variety of ways including:
- Support from your Programme Leader, Module Leaders and Tutors
 - Support from your Workplace Mentor
 - Support through the University's UniHub and on-line learning technologies
 - Induction sessions, workshops and seminars
 - Online seminars and discussion activities
 - Blended learning support
 - Workshops and action learning delivered on-line
 - Module resources on UniHub including your Programme and Modules Handbooks
 - eAssessment activities such as Turnitin technologies
 - University Learner Development Unit

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COURSE DIAGRAMME

MANAGING COST AND RISK

This module is designed to develop your ability to manage Civil Engineering project budgets, cost, cash flow, profit and risk. This will include monitoring, interpreting and applying the results of analysis and modelling to support continuous improvement towards the achieve identified project objectives.

MANAGING PROJECT STANDARDS

This module is designed to develop your ability to design Civil Engineering solutions according to customer and user needs. This will include the use and application of information from technical literature as well as the development of your awareness of quality issues towards continuous improvement. You will also develop your ability to monitor, interpret and apply the results of analysis and modelling to ensure fitness for purpose for all aspects of the project including operation, maintenance and reliability.

MANAGING PROJECT DELIVERY

This module is designed to develop your ability to manage Civil Engineering project programme planning, organisation,

sequencing and scheduling. This will include monitoring, interpreting and applying the results of analysis and modelling in order to bring about continuous improvement to achieve identified project objectives on time.

PROJECT PROPOSAL

This module is designed to support the identification of a chosen area of Civil Engineering practice that can be developed into your Civil Engineering Project. The module will develop approaches and methods that enable you to ask intelligent questions about your chosen area of practice and to formulate a proposal and plan for the Final Project. You will need to discuss and agree your project proposal with both your employer / Workplace Mentor and your Module Tutor.

CIVIL ENGINEERING PROJECT

This modules builds on your Project Proposal to implement your project plan and apply chosen inquiry methods towards achieving your negotiated project objectives. You will develop your proposal to further define the Civil Engineering problem or area of inquiry including identifying project constraints. You will be required to apply in-depth knowledge, understanding, critical, practical and personal skills towards the development of creative and innovative solutions in a practical Civil Engineering context. The form of assessment will be negotiated but is likely to include a project report, presentation and/or other relevant artefacts.

