

**ACADEMIC PARTNERSHIPS
PROGRAMME QUALITY
HANDBOOK
2023-2024**

HNC Construction

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Welcome and Introduction

Welcome to the HNC in Construction delivered at the North Devon Campus by Petroc.

May we begin by warmly welcoming you to the HNC Construction: We are delighted that you have chosen to study with us. We are sure you are going to have a great time here, and that you will benefit significantly from your decision to study the programme.

This course will enable you to analyse your work experience within the built environment. You will learn about health and safety, professional ethics, management methods and principles, maths and science so that you can apply this to your workplace situations. By gaining a greater insight into your work methods, relations and practice you will gain the confidence and ability to be more productive and a valued member of your team.

This programme has been designed to equip you with the skills and knowledge base required to work in your chosen specialism or other graduate opportunities. It is also a platform from which you can undertake additional vocational and academic qualifications.

This Programme Quality handbook contains important information including:

- The approved programme specification
- Module records

Note: The information in this handbook should be read in conjunction with the current edition of:

- Your University Student Institution Handbook which contains student support based information on issues such as finance and studying at HE available at: https://my.petroc.ac.uk/moodle/moodle_3/course/view.php?id=3059
- Your Module Guide available at: https://my.petroc.ac.uk/moodle/moodle_3/course/view.php?id=1339
- Your University of Plymouth Student Handbook available at: <https://www.plymouth.ac.uk/your-university/governance/student-handbook>

Programme Specification

1. Programme Details

Awarding Institution:	University of Plymouth
Partner Institution and delivery site (s):	Petroc North Devon Campus
Accrediting Body:	N/A
Language of Study:	English ¹
Mode of Study:	Full time and Part time
Final Award:	HNC
Intermediate Award:	
Programme Title:	HNC Construction
UCAS Code:	N101
JACS Code:	K220
Benchmarks:	Business and Management 2015
Date of Programme Approval:	2004

Programme Aims

The programme will:

1. Enable those in junior managerial positions to gain the required knowledge to progress to more senior positions
2. Enable existing practitioners to update their knowledge to comply with CPD requirements of professional bodies
3. Provide a local progression route for existing level III students
4. Provide students with a skills base suitable for a career in the contemporary construction industry

Programme Intended Learning Outcomes (ILO)

By the end of this programme the student will be able to:

- approach a range of technical, professional and management roles in construction
- make an immediate contribution in employment
- use critical and thinking skills and will have subject knowledge and flexibility of approach as a basis for progression to foundation and full degree studies
- draw on a range of skills and techniques, personal qualities and attitudes essential for successful performance in working life, for example, self-confidence, time management, initiative, self-discipline and motivation
- evidence a skills base suitable for a career in the contemporary construction industry

¹ Unless otherwise approved through Plymouth University's Academic Development and Partnerships Committee

Progression

Students can progress onto Bachelor's degrees in their subject specific areas, to continue their professional qualification pathway.

Our partner college, Plymouth University, offers a broad range of progression routes through the following associated degrees:

- **[BSc \(Hons\) Construction Project Management \(Full-time\)](https://www.plymouth.ac.uk/courses/undergraduate/bsc-construction-project-management)**

<https://www.plymouth.ac.uk/courses/undergraduate/bsc-construction-project-management>

School of Art, Design and Architecture

The BSc Construction Project Management course at the University of Plymouth prepares you to become a CIOB qualified construction management professional, including project management, construction site management, cost management.

- **[BSc \(Hons\) Building Surveying \(Full-time\)](https://www.plymouth.ac.uk/courses/undergraduate/bsc-building-surveying)**

<https://www.plymouth.ac.uk/courses/undergraduate/bsc-building-surveying>

School of Art, Design and Architecture

The BSc (Hons) Building Surveying course at the University of Plymouth prepares you to become a RICS qualified building surveying professional, dealing with the inspection, maintenance and refurbishment of existing buildings.

- **[BSc \(Hons\) Architectural Engineering \(Full-time\)](https://www.plymouth.ac.uk/courses/undergraduate/bsc-architectural-engineering)**

<https://www.plymouth.ac.uk/courses/undergraduate/bsc-architectural-engineering>

School of Art, Design and Architecture

University of Plymouth's BSc Architectural Engineering course prepares you for a successful career in architectural engineering, design management, building services engineering, applying technology principles to the design and construction of buildings.

- **[BSc \(Hons\) Quantity Surveying \(Full-time\)](https://www.plymouth.ac.uk/courses/undergraduate/bsc-quantity-surveying)**

<https://www.plymouth.ac.uk/courses/undergraduate/bsc-quantity-surveying>

School of Art, Design and Architecture

University of Plymouth course: BSc (Hons) Quantity Surveying. Applying quantity surveying principles and technology to building design and construction.

- **[BEng \(Hons\) Civil Engineering \(Full-time\)](https://www.plymouth.ac.uk/courses/undergraduate/beng-civil-engineering)**

<https://www.plymouth.ac.uk/courses/undergraduate/beng-civil-engineering>

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School of Engineering, Computing and Mathematics

BEng (Hons) Civil Engineering at University of Plymouth. As a civil engineer, you will be involved in providing sustainable, environmentally acceptable solutions to these kinds of issues

Many of the Plymouth University degree programmes can lead to certification through professional bodies such as:

RICS, RIBA, CIBSE, ICE etc

As a student studying Higher Education your programme has been designed to help you to succeed in your career aspirations and has been designed with the involvement of employers. Many of these are prepared to come to your Institution to give talks to students about their working environment and the qualities that they expect in potential employees. Please make every effort to attend such events and to profit from such employer contacts.

Many of your teaching staff will also be able to give you helpful career advice. The Institution Careers Service offers information, advice and guidance to students at all stages of their programme – Mark Turnbull Careers Advisor Mark.turnbull@petroc.ac.uk

Further advice is available from the [University of Plymouth Careers and Employability Service](#) . As a graduate you will have a wide choice of career opportunities throughout the private and public sectors, both in the United Kingdom and abroad.

Module Records

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.*

MODULE CODE: NORD1008	MODULE TITLE: Design Principles
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CREDITS: 10	FHEQ LEVEL: 4	JACS CODE: K220
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PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: Y
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<p>SHORT MODULE DESCRIPTOR: <i>(max 425 characters)</i></p> <p>This module provides the learner with a fundamental understanding of the overall design process, and how the planning/design phases of a project are co-ordinated and managed. The module is intended to help learners develop the ability to understand and apply design in terms of the production and cost implications for construction projects.</p>

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)	0%	C1	100%	P1	0% or Pass/Fail
E2 (OSCE)	0%			P2	0% or Pass/Fail
T1 (in-class test)	0%				

<p>SUBJECT ASSESSMENT PANEL Group to which module should be linked: Humanities and Arts</p>

Professional body minimum pass mark requirement: 40%

<p>MODULE AIMS:</p> <p>To develop an understanding of the design process. To develop the learner's ability to evaluate a design in terms of cost and production implications.</p>

<p>ASSESSED LEARNING OUTCOMES: (additional guidance below)</p> <p>At the end of the module the learner will be expected to be able to:</p> <p>LO1 Differentiate between the planning, design and production phases of the construction process and describe the co-ordination and management of each phase</p> <p>LO2 Describe the various factors that affect the selection of materials and systems</p> <p>LO3 Describe the roles, responsibilities and obligations (including liability for health, safety and welfare) of all parties on a construction project</p> <p>LO4 Describe how technology affects the design of a construction project and also the design processes and procedures used in the production phase</p>

DATE OF APPROVAL: July 2012	FACULTY/OFFICE: Petroc
DATE OF IMPLEMENTATION: 02/09/15	SCHOOL/PARTNER: Petroc
DATE(S) OF APPROVED CHANGE: June 2020	TERM: Semester 2 (Spring)
Additional notes (for office use only):	

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors
<http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code
<http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

Recommended Reading:

- **Environmental Design Pocketbook. 2nd edn. (Print copy)** by Sofie Pelsmakers

Call Number: 720.47 PEL

ISBN: 9781859465486

Publication Date: 2015
- **Handbook for Construction Planning and Scheduling** by Andrew Baldwin; David Bordoli

ISBN: 9780470670323

Publication Date: 2014-06-23

ADDIS, B. (2006) *Building with Reclaimed Components and Materials: A Design Handbook for Reuse and Recycling*. Taylor & Francis.

BROOKES, A. and GRECH, C. (1992) *Connections*. Butterworth-Heinemann.

BROOKES, A. and GRECH, C. (1992) *The Building Envelope*. Butterworth-Heinemann.

BRYAN, T. (2010) *Construction Technology Analysis and Choice*. Wiley-Blackwell.

CHING, F.D.K. (2008) *Building Construction Illustrated*. Wiley.

CIRIA (2004) *Design for Deconstruction: Principles of Design to Facilitate Reuse and Recycling Guide*. C607. CIRIA

COOKE, R. (2007) *Building in the 21st Century*. Blackwell. GORSE, S.E. (2010) *Barry's Advanced Construction of Buildings*. Wiley-Blackwell.

GREENO, R.C. (2008) *Building Construction Handbook*. 7th Ed.

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2023-24	NATIONAL COST CENTRE: 123
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MODULE LEADER: Bob Moores	OTHER MODULE STAFF:
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<p>Summary of Module Content</p> <p>The planning and design of a project, the clients brief Land issues; effects of Brownfield and Greenfield land on a project Financial considerations; the cost of building, cost of commissioning; costs in use Planning & control; legal restraints, planning legislation, building control Selection of materials, systems and equipment Roles and responsibilities of the construction and design team</p>

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information
Lectures	22.5	
Seminars	12.5	
Project Supervision	20	
Guided Independent Study	45	
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc)

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E		%	
	-		%	
Coursework	T		%	LO1, LO3
	-		%	LO1, LO3
Practice	C		50%	LO2, LO4
	-		50%	
	P		%	
	-		%	
			100%	

Updated by: Bob Moores
Date: 02/10/2023

Approved by: Bob Moores
Date: 02/10/2023

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.*

MODULE CODE: NORD1009

MODULE TITLE: Science & Materials

CREDITS: 10

FHEQ LEVEL: 4

JACS CODE: K220

PRE-REQUISITES: None

CO-REQUISITES: None

COMPENSATABLE: Y

SHORT MODULE DESCRIPTOR: (max 425 characters)

This module provides the learner with an introduction to the scientific principles and a basic knowledge of the properties of materials. The module is intended to enable learners to apply, scientific principles to construction related situations. This module also provides the learner with the fundamental mathematical knowledge and analytical techniques to enable learners to use mathematical processes in the solution of Construction, Civil Engineering or Building Services Engineering problems.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]

WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)	00%	C1	%100	P1	0% or Pass/Fail
E2 (OSCE)	00%			P3	0% or Pass/Fail

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Arts

Professional body minimum pass mark requirement: 40%

MODULE AIMS:

To enable the learner to apply scientific principles to real life construction situations.
To detail the effects of changes in circumstances that may occur during normal and abnormal modes of building use.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- LO1 Understand and apply scientific principles to construction, structural, environmental and services operations and determine comfort levels in the design and use of buildings
- LO2 Understand the characteristics, properties and use of materials
- LO3 Describe the effects of structural behaviour on construction components
- LO4 Apply analytical methods to the management and production of construction operation

DATE OF APPROVAL July 2012

FACULTY/OFFICE: Petroc

DATE OF IMPLEMENTATION: 02/09/2015

SCHOOL/PARTNER: Petroc

DATE(S) OF APPROVED CHANGE: June 2020

TERM: Semester 2 (Spring)

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors
<http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code
<http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

Recommended Reading:

SINGH, K. (2011) *Engineering Mathematics Through Applications*. 2nd Ed. Basingstoke: Palgrave Macmillan.

STROUD, K. A. and BOOTH, D.J. (2013) *Engineering Mathematics*. 7th Ed. Basingstoke: Palgrave Macmillan.

BUXTON, P. (2015) *Metric handbook: Planning and design data*. Abingdon: Routledge.

THOMAS, R. (ed.) (2006) *Environmental design: An introduction for architects and engineers*. Third Edition edn. London: Taylor & Francis.

DEAN, Y. (1996) *Materials Technology*. (Mitchells Building Series). Abingdon: Routledge.

DORAN, D. and Cather, B. (2013) *Construction Materials Reference Book*. Abingdon, Routledge.

EVERETT, A. (1994) *Materials*. (Mitchells Building Series). 5th Ed. Abingdon: Routledge.

KATIB, J.M. (2009) *Sustainability of Construction Materials*. Abingdon: Woodhead Publishing Ltd.

LYONS, A. (2014) *Materials for Architects and Builders*. 5th Ed. Abingdon: ROUTLEDGE.

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Last Saved: 14/12/2022

PACHECO-Torga, F. and JALALI, S. (2011) *Eco-Efficient Construction and Building*

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2023-24	NATIONAL COST CENTRE: 123
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MODULE LEADER: Bob Coombes	OTHER MODULE STAFF:
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<p>Summary of Module Content Principles and factors affecting comfort levels Provision of services: water supply, gas supply, electrical supply Properties, design criteria, specifications and uses of materials Specification of materials Structural behaviour of materials Experiments: associated with scientific principles and services Calculations</p>

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information
Lectures	22.5	
Seminars	12.5	
Project Supervision	20	
Guided Independent Study	45	
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc)

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E		%	
	–		%	
Coursework	T		%	
	–		%	
Coursework	C	Coursework	50%	LO1 LO2 LO3 LO4
	–		50%	
	–		100%	
Practice	P		%	
	–		%	
	–		100%	

Updated by: Bob Moores
Date: 02/10/2023

Approved by: Bob Moores
Date: 02/10/2023

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.*

MODULE CODE: NORD1011 **MODULE TITLE:** Construction Management

CREDITS: 10 **FHEQ LEVEL:** 4 **JACS CODE:** K220

PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR: *(max 425 characters)*

This module provides the learner with an introduction to the principles of management as they relate to the technical and professional disciplines. Learners will also learn how these principles may be applied to the management of construction and civil engineering activity through the application of recognised management techniques.

ELEMENTS OF ASSESSMENT *[Use HESA KIS definitions]*

WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)	0%	C1	100%	P1	0% or Pass/Fail
T1 (in-class test)	0%	C3		P3	0% or Pass/Fail
C1	0%	C4			

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Arts and Humanities

Professional body minimum pass mark requirement: 40%

MODULE AIMS:

To introduce the learner to transferable management skills.
To allow the learner to apply management techniques in a variety of situations.

ASSESSED LEARNING OUTCOMES:

- LO1 Develop an understanding of the principles of management
- LO2 Demonstrate knowledge and understanding of the Industry's markets and activities, the roles of the professions/disciplines in project teams and the management principles appropriate to organisations within the industry
- LO3 Demonstrate an understanding of the application of management techniques.

DATE OF APPROVAL: July 2012

FACULTY/OFFICE:
Academic Partnership

DATE OF IMPLEMENTATION: September 2015

SCHOOL/PARTNER: Petroc

DATE(S) OF APPROVED CHANGE: June 2020

TERM: Semester 1 (Autumn)

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors
<http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code
<http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

Recommended Reading:

GRIFFITH, A. and WATSON, P. (2003) *Construction management: Principles and practice*. Hampshire: Palgrave Macmillan.

HARRIS, F. and McCaffer, R. (2013) *Modern construction management*. Chichester: Wiley Blackwell.

KYMMELL, W. (2007) *Building information modeling: Planning and managing construction projects*. New York: McGraw Hill Professional.

OTTOSSON, H. (2012) *Practical project management for building and construction*. Boca Raton: CRC Press.

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2023-24	NATIONAL COST CENTRE: 123
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MODULE LEADER: Bob Moores	OTHER MODULE STAFF:
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Summary of Module Content

This module focuses upon the interaction between colleagues within the workplace and how such communication can link to productivity and professional effectiveness. Construction is an extremely 'social' working environment as it is characterised by its 'project based' pattern of work, usually involving a large collection of people with a range of varying background, knowledge, expertise and aims/preferred outcomes for each job. What underlying factors affect relationships within the workplace and how can they be altered to produce a harmonious situation? How is the work organised and managed? How can workers become more productive in a way that it is sustainable? These are some of the issues that will be studied.

The module provides you with an insight into the psychology of behaviour so that as a manager within the Built Environment you will feel more equipped to maintain staff input, as well as control quality, productivity levels, cost and time parameters. The idea is that you will start to understand some of the theory that has been developed within this field of study and learn how to relate this to your workplace in practice.

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]

Scheduled Activities	Hours	Comments/Additional Information
Lectures	30	
Seminars	10	
Project Supervision	15	
Guided Independent Study	45	
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc)

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E_		0%	
	T1		0%	
	T2		0%	
Coursework	C1	Coursework	50%	LO 1, L02 LO2,LO3
			50%	
Practice	P_		0%	

Updated by: Bob Moores

Approved by: Bob Moores

Date: 02/10/2023

Date: 02/10/2023

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.*

MODULE CODE: NORD1012

MODULE TITLE: Health, Safety & Welfare

CREDITS: 10

FHEQ LEVEL: 4

HECOS CODE: 100866

PRE-REQUISITES: None

CO-REQUISITES: None

COMPENSATABLE: Y

SHORT MODULE DESCRIPTOR: *(max 425 characters)*

This module covers the knowledge and skills needed to identify hazards in the workplace, assess the level of risk, make recommendations to control the risk and review the results, this will be considered along with relevant safety legislation.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]

WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)	00%	C1	100%	P1	0% or Pass/Fail
E2 (OSCE)	00%	C2	0%	P3	0% or Pass/Fail
C4	0%	C3	0%		

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Humanities and Arts

Professional body minimum pass mark requirement: 40%

MODULE AIMS:

To introduce the learner to the main principles of risk assessment and risk management in the workplace.

To introduce the principle legislation connected with the construction industry.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- LO1 Define the main health, safety and welfare legislation in the construction sector and the implications of non-compliance
- LO2 Demonstrate an understanding of hazard and risk identification in design and construction
- LO3 Undertake risk assessment and formulate control measures to prevent ill health and injury
- LO4 Review, revise and monitor assessments as required.

DATE OF APPROVAL: 03/03/2009

FACULTY/OFFICE: Petroc

DATE OF IMPLEMENTATION: 02/09/2015

SCHOOL/PARTNER: Petroc

DATE(S) OF APPROVED CHANGE: June 2020

TERM: Semester 1 (Autumn)

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors
<http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code
<http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

Recommended Reading:

BARBER, J. and INSTITUTION OF CIVIL ENGINEERS (Great Britain) (2002) *Health & safety in construction: guidance for construction professionals*. Thomas Telford.

CHARTERED INSTITUTE OF BUILDING (2014) *Code of Practice for Project Management for Construction and Development*. 5th Ed. London: Wiley-Blackwell.

COLES, D., BAILEY, G. and CALVERT, R. E. (2012) *Introduction to Building Management*. London: Routledge.

COOKE, B. and WILLIAMS, P. (2009) *Construction planning, programming and control*. Wiley-Blackwell.

DAINTY, A. and LOOSEMORE, M. (2012) *Human Resource Management in Construction: Critical Perspectives*. 2nd Ed. London: Routledge.

FORSTER, G. (1986) *Building organisations, and procedure*. Longman Scientific & Technical.

HARRIS, F., MCCAFFER, R. and EDUM-FOTWE, F. (2013). *Modern construction management*. Wiley-Blackwell.

HUGHES, P., PHILLIP W. and FERRETT, E. (n.d.) *Introduction to health & safety in construction: for the NEBOSH national certificate in construction health & safety*.

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2023-24	NATIONAL COST CENTRE: 123
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MODULE LEADER: Bob Moores	OTHER MODULE STAFF: Bob Moores
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Summary of Module Content legal duties for health, safety and welfare in the workplace Hazards and risks: methods of hazard identification Risk assessment

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information
Lectures	22.5	
Seminars	12.5	
Project Supervision	20	
Guided Independent Study	45	
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc)

Category	Element	Component Name	Component weighting	Comments <i>Include links to learning objectives</i>
Written exam	E_		% % % 0%	
	T_		% % % 0%	
Coursework	C_	Coursework	50% 50% 100%	LO1,LO2,LO3,LO4
Practice	P_		% % % 0%	

Updated by: Bob Moores	Approved by: Bob Moores
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Date: 02/10/2023

Date: 02/10/2023

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.*

MODULE CODE: NORD1013

MODULE TITLE: Construction Technology 1

CREDITS: 10

FHEQ LEVEL: 4

JACS CODE: K220

PRE-REQUISITES: None

CO-REQUISITES: None

COMPENSATABLE: Y

SHORT MODULE DESCRIPTOR:

This module provides the learner with an introduction to the fundamental aspects of construction technology. The module has been designed to enable learners to understand the standard design forms, site evaluation methods and methods of construction used in the modern construction industry.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]

WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)	0%	C1	100%	P1	0% or Pass/Fail
E2 (OSCE)	0%	C2	0%	P3	0% or Pass/Fail
C4	0%	C3	0%		

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Humanities and Arts

Professional body minimum pass mark requirement: 40%

MODULE AIMS:

To introduce aspects of construction technology to the learners.
To introduce site evaluation & site investigation methods.
To introduce aspects of decay and deterioration.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- LO1 Describe Site evaluation techniques, site investigation techniques and the methods used to classify soils.
- LO2 Produce details of how the results of site evaluation and site investigation influence the choice of sub-structure used in low-rise and medium-rise residential buildings and the methods used to construct such sub-structures.
- LO3 Describe the various forms of superstructure design and construction used in low-rise and medium-rise residential.
- LO4 Investigate the various causes of decay and deterioration of buildings

DATE OF APPROVAL: July 2012

FACULTY/OFFICE: Petroc

DATE OF IMPLEMENTATION: 02/09/2015

SCHOOL/PARTNER: Petroc

DATE(S) OF APPROVED CHANGE: June 2020

TERM: Semester 2 (Autumn)

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Last Saved: 14/12/2022

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors
<http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code
<http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

Recommended Reading:

BRYAN, T. (2010) *Construction Technology: Analysis and Choice*, Oxford: Blackwell.

CHARTLETT, A. and Maybery-Thomas, C. (2013) *Fundamental Building Technology*. 3rd Ed. Abingdon: Routledge.

CHUDLEY, R. et al. (2012) *Advanced Construction Technology*. 5th Ed. Harlow: Pearson Education Limited.

CHUDLEY, R. and Grenno, R. (2016) *Building Construction Handbook*. Abingdon: Routledge.

FLEMING, E. (2005) *Construction Technology: An Illustrated Introduction*. Oxford: Blackwell.

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2023-24	NATIONAL COST CENTRE: 123
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MODULE LEADER: Bob Moores	OTHER MODULE STAFF:
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Summary of Module Content Site evaluation and site investigation Forms of substructure and foundations Forms of superstructure including finishes and services Analyse decay and deterioration of buildings

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information
Lectures	22.5	
Seminars	12.5	
Project Supervision	20	
Guided Independent Study	45	
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc)

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E		%	
	-		%	
			100%	
Coursework	T		%	
	-		%	
			100%	
Practice	C		50%	LO1
	-		50%	LO2
			100%	LO3
Practice	P		%	
	-		%	
			100%	

Updated by: Bob Moores Date: 02/10/2023	Approved by: Bob Moores Date: 02/10/2023
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SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.*

MODULE CODE: NORD1015	MODULE TITLE: Professional Ethics & Practice
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CREDITS: 10	FHEQ LEVEL: 4	JACS CODE: K220
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PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: Y
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SHORT MODULE DESCRIPTOR: *(max 425 characters)*
 This module is designed to introduce the learner to the concepts of professional ethics and the wider social, technical, economic and financial aspects of professional practice which must be considered alongside the core business activities.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)	0%	C1	100%	P1	0% or Pass/Fail
E2 (OSCE)	0%	C2	0%	P3	0% or Pass/Fail
T1 (in-class test)	0%	C3	0%		

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Humanities and Arts

Professional body minimum pass mark requirement: 40%

MODULE AIMS:
 To develop an understanding of the need for professional ethical standards.
 To introduce the learner to the need for and uses of codes of practice and their role in the wider social and other contexts in which professionals work.
 To introduce the learners to conduct themselves appropriately as representatives of the profession/industry.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
 At the end of the module the learner will be expected to be able to:
 LO1 Describe the role of ethical standards and how they apply to construction activities
 LO2 Describe the role of codes of practice
 LO3 Describe the wider issues associated with professional practice

DATE OF APPROVAL: July 2012	FACULTY/OFFICE:
DATE OF IMPLEMENTATION: 02/09/2015	SCHOOL/PARTNER:
DATE(S) OF APPROVED CHANGE: June 2020	TERM: Semester 2 (Spring)

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors
<http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code
<http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

Recommended Reading:

CARD, R., MURDOCH, J. and MURDOCH, S. (2011) *Real Estate Management Law*. 7th Ed. Oxford University Press.

CLOUGH, R.H., SEARS, G.A., SEARS, K.S., SEGNER, R.O. and ROUNDS, J.L. (2015) *Construction contracting: A practical guide to company management*. Eighth edn. Hoboken: John Wiley & Sons.

MASON, J. (2016) *Construction law: From beginner to practitioner*. London: Routledge.

UFF, J. (2013) *Construction Law*. London: Sweet & Maxwell.

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2023-24	NATIONAL COST CENTRE: 123
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MODULE LEADER: Bob Moores	OTHER MODULE STAFF:
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Summary of Module Content

This module examines the professional's wider responsibility to society at large, environmental issues, financial issues, others image of the industry. The role that professional bodies codes of conduct have on companies and individuals, how they might benefit and limit development. The need for bespoke sets of rules and how values are affected through the ever changing environment creating a variation in perception.

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]

Scheduled Activities	Hours	Comments/Additional Information
Lectures	22.5	
Seminars	12.5	
Project Supervision	20	
Guided Independent Study	45	
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc)

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E_		% % % 0%	
	T_		% % 0%	
Coursework	C_		50% 50% 100%	Lo: 2 Lo: 3 Lo: 1
	P_		% % 0%	

Updated by: Bob Moores

Approved by: Bob Moores

Date: 02/10/2023

Date: 02/10/2023

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.*

MODULE CODE: NORD1090

MODULE TITLE: Tendering and Estimating

CREDITS: 10

FHEQ LEVEL: 4

JACS CODE: K220

PRE-REQUISITES: None

CO-REQUISITES: None

COMPENSATABLE: Y

SHORT MODULE DESCRIPTOR: *(max 425 characters)*

This module provides the learner with a fundamental understanding and application of tendering procedures and the principles and methods of estimating, which form an integral part of the tendering process. This module will also enable learners to develop a commercial awareness of tendering and estimating and to demonstrate knowledge and understanding of the commercial aspects of the Industry.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]

WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)	0%	C1	100%	P1	0% or Pass/Fail
E2 (OSCE)	0%	C2		P3	0% or Pass/Fail
T1 (in-class test)	0%	A1	0%		

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Humanities and Arts

Professional body minimum pass mark requirement: 40%

MODULE AIMS:

To introduce the learner to the concepts of tendering for construction and design work.
To introduce the learner to the tender production process.
To introduce the learner to the various contractual arrangements in common use.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- LO1 Demonstrate knowledge of the information required to produce a tender.
- LO2 Understand the principles and techniques of estimating.
- LO3 Analyse and apply methods of pricing to determine and formulate an estimate for construction operations.

DATE OF APPROVAL: July 2012

FACULTY/OFFICE: Petroc

DATE OF IMPLEMENTATION: 01/09/15

SCHOOL/PARTNER: Petroc

DATE(S) OF APPROVED CHANGE: June 2020

TERM: Semester 2 (Spring)

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors
<http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code
<http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

Recommended Reading:

BROOK, M. (2008) *Estimating and Tendering for Construction Work*. Butterworth-Heinemann.

FINCH, R. (2011) *NBS Guide to Tendering Construction Projects*. RIBA.

HUGHES, W., HILLEBRANDT, P., GREENWOOD, D. and KWAWU, W. (2006) *Procurement in the Construction Industry*. Taylor & Francis.

MORLEDGE, R. and SMITH, A. (2013) *Building Procurement*. Wiley-Blackwell.

TREBES, B. and MITCHELL, B. (2012) *NEC Managing Reality*. 2nd Ed. Procuring and Engineering and Construction Contract, ICE Publishing.

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2023-24	NATIONAL COST CENTRE: 123
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MODULE LEADER: Bob Moores	OTHER MODULE STAFF:
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<p>Summary of Module Content</p> <p>Collection of tendering information Processes and procedures used to build up an estimate Commercial and operational factors Contractor's activities associated with the preparation of a tender</p>

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information
Lectures	22.5	
Seminars	12.5	
Project Supervision	20	
Guided Independent Study	45	
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc)

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E_		% % % 100%	
	T_		% % 100%	
Coursework	C_		60% 40% 100%	LO1,LO2 LO1,LO2,LO3
	P_		% % 100%	
Practice				

Updated by: Bob Moores
Date: 02/10/2023

Approved by: Bob Moores
Date: 02/10/2023

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.*

MODULE CODE: NORD1091

MODULE TITLE: CAD

CREDITS: 10

FHEQ LEVEL: 4

HECOS CODE: 100160

PRE-REQUISITES: None

CO-REQUISITES: None

COMPENSATABLE: Y

SHORT MODULE DESCRIPTOR: *(max 425 characters)*

This module provides the learner with an introduction to the skills and knowledge required to use appropriate computer software as an aid to design for the construction industry. The difference in approach between manual and computer aided design (CAD) is explained.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]

WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)	0%	C1	100%	P1	0% or Pass/Fail
E2 (OSCE)	0%	C2		P3	0% or Pass/Fail
T1 (in-class test)	0%	A1	0%		

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Humanities and Arts

Professional body minimum pass mark requirement: 40%

MODULE AIMS:

To introduce the learner to the production of drawn information using electronic methods
To introduce the learner to the manipulation of drawn information to produce views and walkthroughs.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- LO1 Demonstrate the knowledge and ability to save, retrieve and printout to scale a drawing file using industry standard CAD software
- LO2 Use industry standard design software to produce dimensioned ground floor and first floor plans of a building project
- LO3 Demonstrate the knowledge ability to utilise the system's commands to automatically produce elevations, 3D-views and perspective views of a project.

DATE OF APPROVAL: July 2012

FACULTY/OFFICE:

DATE OF IMPLEMENTATION: 01/09/15

SCHOOL/PARTNER:

DATE(S) OF APPROVED CHANGE: June 2020

TERM: Semester 1 (Autumn)

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors
<http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code
<http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

Recommended Reading:

CHING, F.D.K. (2014) *Building Construction Illustrated*. John Wiley & Sons.

CHUDLEY, R. (2016) *Building Construction Handbook*. Routledge.
Construction Specifications Institute (2011) *The CSI Construction Specifications Practice Guide*. John Wiley & Sons.

HUTH, M.W. (2009) *Understanding Construction Drawings*. Delmar Cengage.

KALIN, M. and WEYGANT, R.S. (2010) *Construction Specification Writing: Principles and Procedures*. John Wiley & Sons.

KUBBA, S. (2008) *Blueprint Reading: Construction Drawing for the Building Trade*. McGraw-Hill.

CROTTY, R. (2012) *The Impact of Building Information Modelling: Transforming Construction*. Oxford: Spon Press.

EASTMEN, C., TEICHOLZ, P., SACKS, R. and LISTON, K. (2011) *BIM handbook: A Guide to Building Information Modelling for Owners, Managers, Designers, Engineers and Contractors*. 2nd Ed. John Wiley and Sons Inc.

FAIRHEAD, R. (2013) *Information Exchanges: RIBA Plan of Work 2013 Guide*. RIBA Publishing.

SHEPHERD, D. (2015) *BIM Management Handbook*. NBS.

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2023-24	NATIONAL COST CENTRE: 123
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MODULE LEADER: Bob Moores	OTHER MODULE STAFF:
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<p>Summary of Module Content Access CAD software Application of dedicated CAD software: CAD drawing and existing commands, architectural option, construct and modify commands, creating space diagrams, cavity walls, roofs, chimneys, structural elements, doors, windows and staircases. Inserting 2D and 3D symbols, layer convention and controls, level commands, status, set level, level copy, level move, freeze and thaw, text and dimensioning commands, editing text and dimensions Produce quick elevations and sections</p>

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information
Lectures	22.5	
Seminars	12.5	
Project Supervision	20	
Guided Independent Study	45	
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc)

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E_		% % % 0%	
	T_		% % 0%	
Coursework	C_		100% 0 % 100%	LO1,2,3
Practice	P_		% % 0%	

Updated by: Bob Moores
Date: 02/10/2023

Approved by: Bob Moores
Date: 02/10/2023

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.*

MODULE CODE: NORD1092 **MODULE TITLE:** Site Surveying Procedures

CREDITS: 10

FHEQ LEVEL: 4

JACS CODE: K220

PRE-REQUISITES: None

CO-REQUISITES: None

COMPENSATABLE: Y

SHORT MODULE DESCRIPTOR: *(max 425 characters)*

This module provides an opportunity for the learner to undertake setting out and control of alignment of construction work and develops the knowledge needed to perform surveying calculations

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]

WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)	0%	C1	100%	P1	0%
E2 (OSCE)	0%	C2			0% or Pass/Fail
T1 (in-class test)	0%	A1			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Arts

Professional body minimum pass mark requirement: 40%

MODULE AIMS:

To develop an understanding of the need for accurate setting out and control of building work
To introduce the learner to a range of manual and digital surveying equipment including their limitations

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- LO1** Demonstrate the ability to use a range of instruments
- LO2** Demonstrate a detailed understanding of the principles of surveying and setting out
- LO3** Calculate from raw data the information required for cartographic detailing and setting out
- LO4** Describe the use of electronic and laser instruments in the construction industry
- LO5** Apply and evaluate computer software to calculate and produce surveying solutions.

(selected from Knowledge and Understanding; Cognitive/intellectual skills; Key/transferable skills; Practical skills - see SEEC level descriptors)

DATE OF APPROVAL July 2012

FACULTY/OFFICE:

DATE OF IMPLEMENTATION: 01/09/15

SCHOOL/PARTNER:

DATE(S) OF APPROVED CHANGE: June 2020	TERM: Semester 1 (Spring)
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Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors
<http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code
<http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

Recommended Reading:

Surveying, and Civil Engineering (Oxford Quick Reference) Paperback – 4 May 2012 by Christopher Gorse (Author), David Johnston (Contributor), Martin Pritchard (Contributor) Surveying with Construction Applications, Global Edition Paperback – 10 Sep 2014 by Barry Kavanagh (Author), Diane K. Slattery (Author)

IRVINE, W. and MACLENNAN, F. (2005) *Surveying for Construction*. 5th Ed. London: McGraw-Hill.

SCHOFIELD, W. and BREACH, M. (2007) *Engineering Surveying*. 6th Ed. Oxford: Elsevier.

SADGROVE, B.M. (2007) *Setting Out Procedures for the Modern Built Environment*. London: Ciria.

UREN, J. and PRICE, W. (2010) *Surveying for Engineers*. 5th Ed. Basingstoke: Palgrave Macmillan.

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2023-24	NATIONAL COST CENTRE: 123
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MODULE LEADER John Popham	OTHER MODULE STAFF:
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Summary of Module Content The selection and use of appropriate surveying instruments for a given job: Linear measurement Levelling/Height Measurement Angular measurement Transferring data Distinction between open, link and closed traverse Establishing and plotting contour lines Setting out

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information
Lectures	22.5	
Seminars	12.5	
Project Supervision	20	
Guided Independent Study	45	
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc)

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E_		% % % 0%	
	T_		% % 0%	
Coursework	C_		100%	LO2,LO3,LO4 LO1 LO5
Practice	P_		% % %	

Updated by: Bob Moores
Date: 02/10/2023

Approved by: Bob Moores
Date: 02/10/2023

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.*

MODULE CODE: NORD1093

MODULE TITLE: Production Management

CREDITS: 10

FHEQ LEVEL: 4

JACS CODE: K220

PRE-REQUISITES: None

CO-REQUISITES: None

COMPENSATABLE: Y

SHORT MODULE DESCRIPTOR: *(max 425 characters)*

This module will develop the application of management principles and techniques at site management level. The module will provide learners with knowledge of the management of construction sites and will develop an appreciation of the interface between management, technology and productivity.

ELEMENTS OF ASSESSMENT *[Use HESA KIS definitions]*

WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)	0%	C1	100%	P1	0% or Pass/Fail
E2 (OSCE)	0%	C2	0%	P3	0% or Pass/Fail
T1 (in-class test)	0%	A1	0%		

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Humanities and Arts

Professional body minimum pass mark requirement: 40%

MODULE AIMS:

To develop an understanding of the need for good communication with those workers on site and higher levels of management
To develop an understanding of the main functions of site management – to monitor, to control and to report
To develop an appreciation of the need to maintain progress against programme and the implications of delays

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- LO1 Develop an understanding of the principles and application of site management methods
- LO2 Investigate the importance of effective communications and the essentials of resource planning
- LO3 Apply cost forecasting, cost control and cost reporting techniques
- LO4 Apply planning and programming techniques to typical projects

DATE OF APPROVAL July 2012

FACULTY/OFFICE:

DATE OF IMPLEMENTATION: 01/09/15

SCHOOL/PARTNER:

DATE(S) OF APPROVED CHANGE: June 2020

TERM: Semester 1 (Autumn)

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors
<http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code
<http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

Recommended Reading

Chartered Institute of Building (2014) *Code of Practice for Project Management for Construction and Development*. 5th Ed. Wiley-Blackwell.

FEWINGS, P. (2013) *Construction Project Management: An Integrated Approach*. 2nd Ed. Routledge.

Office of Government Commerce (2009) *Managing Successful Projects with Prince2*. The Stationary Office.

Project Management Institute (2013) *A Guide to the Project Management Body of Knowledge*. 5th Ed. Project Management Institute.

SEARS, S.K., SEARS, G.A., CLOUGH, R.H., ROUNDS, J.L. and SEGNER, R.O (2015) *Construction Project Management: A Practical Guide to Field Construction Management*. 6th Ed. John Wiley & Sons Inc.

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2023-24	NATIONAL COST CENTRE: 123
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MODULE LEADER: Bob Moores	OTHER MODULE STAFF:
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<p>Summary of Module Content This module will develop the application of management principles and techniques through a range of management tools and will develop an appreciation of how management frameworks and processes can enable a process of continuous improvement.</p>

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information
Lectures	22.5	
Seminars	12.5	
Project Supervision	20	
Guided Independent Study	45	
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc)

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E_		% % % 0%	
	T_		% % 0%	
Coursework	C_		50 % 50 % 100%	Lo:1,2,3 Lo: 4
	P_		% % 0%	

Updated by: Bob Moores Date: 02/10/2023	Approved by: Bob Moores Date: 02/10/2023
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SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.*

MODULE CODE: NORD1095	MODULE TITLE: Law and Contract
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CREDITS: 10	FHEQ LEVEL: 4	JACS CODE: K220
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PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: Y
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SHORT MODULE DESCRIPTOR: *(max 425 characters)*
 This module is intended to provide learners with an introduction to the national legal system and the Law of Contract. It is also intended that learners will develop knowledge and understanding in those aspects of contractual administration relating to the common types of contract used in the industry for building or civil engineering works of various sizes.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)	0%	C1	100%	P1	0% or Pass/Fail
E2 (OSCE)	0%	C2		P3	0% or Pass/Fail
	0%	C3			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Arts

Professional body minimum pass mark requirement: 40%

MODULE AIMS
 To introduce the learner to the principles of English Law in relation to the UK construction industry and companies

ASSESSED LEARNING OUTCOMES: (additional guidance below)
 At the end of the module the learner will be expected to be able to:

LO1 Demonstrate an understanding of the nature and significance of the principles and procedures of law and legislation as applied to the construction process
 LO2 Describe the liabilities and responsibilities of parties to a contract
 LO3 *Describe in relation to the law the organisation of a business or company within the construction industry*

DATE OF APPROVAL: July 2012	FACULTY/OFFICE:
DATE OF IMPLEMENTATION: 01/09/15	SCHOOL/PARTNER:
DATE(S) OF APPROVED CHANGE: June 2020	TERM: Semester 1 (Autumn)

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors
<http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code
<http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

Recommended Reading:

CHAPPELL, D. (2015) *Construction Contracts Questions and Answers*. 3rd Ed. Routledge.

CHAPPELL, D. (2012) *Understanding JCT Standard Building Contracts*. Routledge.

GODWIN, W. (2013) *International Construction Contracts: A Handbook*. Wiley.

HUGHES, W., CHAMPION, R. and MURDOCH, J. (2015) *Construction Contracts Law and Management*. 5th Ed. Routledge.

HUGHES, W.B. (2015) *Construction Contracts*. Routledge.

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2023-24	NATIONAL COST CENTRE: 123
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MODULE LEADER: Bob Moores	OTHER MODULE STAFF:
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<p>Summary of Module Content</p> <p><i>Law relating to the construction process:</i> English legal system, the court system, principles of arbitration, alternative dispute resolution (ADR) and adjudication, Common Law, the law of tort, negligence, nuisance, trespass, statutory duties, liability.</p> <p><i>Law relating to the organisation and practice of a company:</i> detailed understanding of the English legal system, company law and legal status of companies, employment law, law of land and property, sale, purchase and rental of goods, health, safety and welfare, employer liability, subcontractor tax requirements</p>

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information
Lectures	22.5	
Seminars	12.5	
Project Supervision	20	
Guided Independent Study	45	
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc)

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E_		% % % 0%	
	T_		% % 0%	
Coursework	C_		50% 50% 100%	LO1, LO2 LO3
Practice	P_		% % 0%	

Updated by: Bob Moores
Date: 02/10/2023

Approved by: Bob Moores
Date: 02/10/2023

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.*

MODULE CODE: NORD1089 | **MODULE TITLE:** Group Project & Contractual Procedures

CREDITS: 10 | **FHEQ LEVEL:** 4 | **JACS CODE:** K220

PRE-REQUISITES: None | **CO-REQUISITES:** None | **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR: *(max 425 characters)*

This module develops the learner's ability to resolve realistic practical problems. It aims to apply the skills and knowledge developed in other modules of the course within a major piece of work that reflects the type of performance expected of construction professionals. It aims to develop a working knowledge of the types of procurement arrangements used in the industry.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]

WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)	0%	C1	100%	P1	0% or Pass/Fail
E2 (OSCE)	0%	C2		P3	0% or Pass/Fail
C4		C3			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Arts

Professional body minimum pass mark requirement: 40%

MODULE AIMS:

To develop skills of time management when working to a programme.
To introduce the learner to the basic contractual principles.
To enable the learner to select appropriate contract forms for different circumstances.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- LO1 Initiate feasibility studies
- LO2 Implement the scheme of work within the agreed procedures
- LO3 Present a project evaluation.
- LO4 Analyse the forms of contract with particular reference to time, cost and quality

DATE OF APPROVAL: July 2012

FACULTY/OFFICE: Petroc

DATE OF IMPLEMENTATION: 01/09/15

SCHOOL/PARTNER: Petroc

DATE(S) OF APPROVED CHANGE: June 2020	TERM: Semester 2 (Spring)
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Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors
<http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code
<http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

Recommended Reading:

BALDWIN, A. (2014) *Handbook for Construction Planning and Scheduling*, Wiley-Blackwell: London.

BELBIN, M. (2010) *Team Roles at Work*. Taylor & Francis.

BENNETT, J. and PEACE, S. (2006) *Partnering in Construction: A Code of Practice for Strategic Collaborative Working*. Burlington: Butterworth-Heinemann.

BOUHLAGHEM, D. (2011) *Collaborative Working in Construction*. Abingdon: SPON Press.

CIOB (2010) *Guide to Good Practice in the Management of Time in Complex Projects*. London: Chartered Institute of Building.

DAINTY, A. and LOOSEMORE, M. (ed.) (2012) *Human Resource Management in Construction: Critical Perspectives*. Abingdon: Routledge.

KELLY, J. and MALE, S. (1992) *Value Management in Design and Construction: The Economic Management of Project*. London: Taylor & Francis.

MYERS, S. and CHILDS, R. (2016) *Understanding Team Roles*. Nielson Book Services Limited.

POTTS, K. and ANKRAH, N. (2014) *Construction Cost Management: Learning from Case Studies*. London: Routledge.

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WYATT, D. (2007) *Construction Specifications: Principles and Applications*. New York: Delmar.

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ACADEMIC YEAR: 2023-24	NATIONAL COST CENTRE: 123
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MODULE LEADER: Bob Moores	OTHER MODULE STAFF:
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Summary of Module Content

Specification: establish a list of technical and non-technical specifications to be met

- Feasibility: formulate an initial solution, appraise its feasibility in terms of the constraints
- Initial stage: finalise an agreed approach to the project solution within the agreed specifications
- Developmental stage: work towards the agreed final solution within the identified constraints
- Final presentation: to include written reports, minutes of meetings, individual log books etc,
- Outline of procurement routes and contractual arrangements, selection of forms of building contracts and procurement arrangements, roles and activities of the parties and organisations involved
- Forms of contract: with reference to time, cost, quality

SUMMARY OF TEACHING AND LEARNING *[Use HESA KIS definitions]*

Scheduled Activities	Hours	Comments/Additional Information
Lectures	22.5	
Seminars	12.5	
Project Supervision	20	
Guided Independent Study	45	
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc)

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E_		% % 0%	
	T_		% % 0%	
Coursework	C_		60% 40% 100%	LO1, LO2, LO3, LO4 LO4
Practice	P_		% % 0%	

Updated by: Bob Moores
Date: 02/10/2023

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Date: 02/10/2023

