UNIVERSITY COLLEGE OF ESTATE MANAGEMENT

# Surveying Technician Diploma 

Programme Specification

## Academic year September 2017 to August 2018

Reference:
Version: 12.00
Status: Final
Author: Sam Ricketts
Date: 10/10/2018

## Summary Programme Details

| Final Award |  |
| :--- | :--- |
| Award: | Diploma |
| Title of (final) <br> Programme | Surveying Technician |
| Credit points: | 45 |
| Level of award <br> (QAA FHEQ): | Level 3 |
| Intermediate <br> award(s) |  |
| Intermediate <br> award one: | N/A |
| Credit points: | N/A |
| Level of award <br> (QAA FHEQ): | N/A |
| Intermediate <br> award two: | N/A |
| Credit points: | N/A |
| Level of award <br> (QAA FHEQ): | N/A |
| Validation | University College of Estate Management (UCEM) |
| Validating <br> institution: | Academic Apprenticeships |
| Faculty | October 2015 |
| Date of last <br> validation: | October 2020 <br> Date of next <br> periodic review: <br> Professional <br> accreditation <br> Recognition <br> Recognising* <br> body: <br> Royal Institution of Chartered Surveyors (RICS) <br> *The programme is recognised by the RICS as meeting the requirements <br> of the surveying technician apprenticeship standard and can lead to <br> Associate membership of RICS (AssocRICS). <br> Date of last <br> programme <br> recognition <br> Date of next <br> periodic review: N/A |

## Surveying Technician Diploma

| Miscellaneous | Regulatory <br> alignment |
| :--- | :--- |
| N/A as a level 3 qualification it is aligned with the Regulated Qualifications <br> Framework (RQF) by the Office of Qualifications and Examinations <br> Regulation (Ofqual) please click here.(accessed 22/09/2016) <br> This superseded the Qualifications and Credit Framework (QCF)- which <br> has helped in framing the size of the qualification as this was in place at <br> the time BIS signed of the apprenticeship framework. <br> Please click here for the regulatory arrangements for the QCF. (accessed <br> 22/09/2016) |  |
| Date of <br> commencement <br> of first delivery | January 2016 |
| Duration | Two years |
| Maximum <br> period of <br> registration | Apprentice Students are normally expected to complete within two years, <br> unless a break in learning has been agreed. The maximum period of <br> registration to the programme is three years. Any period during which <br> students have taken a break in learning are included in the maximum <br> three-year period. |
| UCAS Code | N/A |
| Programme <br> Code | UDS3BSS/UDS3QSS/UDS3RES |
| Other coding as <br> required | N/A |

## Programme Overview

## Rationale

This programme is designed to provide the educational component of a Surveying Technician Apprenticeship, and is a pre-requisite to end point assessment, along with other elements of their apprenticeship, prior to becoming Associate members of RICS (AssocRICS). It is mapped against the requirements of the Surveying Technician Standards for the apprenticeship, and approved by the Department for Business Information and Skills (BIS).
UCEM's strategic aim is to provide "accessible, flexible and cost-effective online education producing leading talent for a better Built Environment." It is the Institution's fundamental mission to widen access to the property surveying and real estate sectors so that the profession benefits from the wide range of talent coming through our schools. This programme is an opportunity to offer a supported and engaging learning experience to all aspiring surveyors irrespective of location, background or ability to pay.

## Entry requirements

For standard entry to this programme students must have:
I. been accepted upon a Surveying Technician Apprenticeship,
and,

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II. achieved five GCSEs at Grade C (or at grade 4 under the new grading system) or higher, including maths and English (or have an accepted equivalent maths and English qualification*);

Or,
III. prior attainment at full Level 2** or higher and meet the requirements above for maths and English.

## Non-standard applications:

Non-standard applications will be considered where the applicant has:
I. been accepted upon a Surveying Technician Apprenticeship,
II. achieved a minimum of three GCSEs at Grade C/Grade 4 and above (excluding maths and English).

Or,
III. has prior attainment at full Level 2** or higher (excluding maths and English);

And,
IV. has an accepted Level 2 maths or English qualification or higher;

And
V. has, through BKSB initial assessment, demonstrated a working level of Level 2,
VI. or a working level of Level 1 and a BKSB Level 1 diagnostic assessment score of at least $75 \%$ for the other subject.
Non-standard applicants that are admitted to the programme will be required to achieve Level 2 Functional Skills in the relevant mathematics or English subject within 12 months of the commencement of the programme.

* As defined in Annex G: Table of equivalent qualifications accepted for the purposes of prior attainment (click here).
**As defined in ILR Specification 2017 to 2018 (click here).
Recognition of prior certificated learning (RPCL) or recognition of prior experiential learning (RPEL) routes into the Programme

There is no recognition of prior learning allowed for this level 3 programme.

## Programme progression

Students who successfully complete this qualification and the Surveying Technician Apprenticeship may progress to one of UCEM's related BSc (Hons) programmes.

## Award Regulations

Level 3 Surveying Technician Diploma Assessment, Progression and Award Regulations and Level 3 Academic and General Regulations for Students.

## Career prospects

This programme equips students with grounding in the subject knowledge and study skills required to enable them to enter and work at technician level within the real estate and surveying areas of practice in the property industry. The opportunities available are fairly extensive and include, but are not limited to, the following career paths:

- Property agency and management.


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- Property development.
- Contract surveying.
- Quantity surveying.
- Estimating.
- Building surveying.
- Residential or commercial property.
- Construction project management.


## Programme Aims

## Programme aims


#### Abstract

Through studying the core units and then profession pathway unit options, students will have developed a knowledge and understanding of surveying to support their working in the industry. The programme should provide an excellent bedrock for both working in the surveying profession and further study at higher levels. It ensures that students are prepared with the general knowledge of sustainability, construction technologies, economics, law and health and safety, along with specialisms in one of the following areas:


- Valuation;
- Residential or Commercial Property;
- Planning and Development;
- Building Surveying Consultant;
- Quantity Surveying.

Market and internationalisation
This programme is intentionally not aimed at an international market as it is aimed at the apprenticeship market in England.

## Learning Outcomes

|  | Level 3 | Relevant UNITS |
| :---: | :---: | :---: |
| A - Knowledge and understanding | A3.1 Examine and comprehend the impact of legal systems, law, regulations and codes of practice upon surveying and the built environment. <br> A3.2 Illustrate the principles of the basic technology of construction. <br> A3.3 Appreciate the scope and working of surveying practice and the various career pathways within it, developing specialist knowledge in at least one area. | $\begin{aligned} & 1,2,3,5 a, 6 a, \\ & 6 b \\ & 1,5 b, 3, \\ & \text { All } \end{aligned}$ |
| B - Intellectual skills | B3.1 Assess the impact that sustainable considerations and policies have upon built environments. <br> B3.2 Analyse various possible solutions to surveying problems and determine the best approach to take. <br> B3.3 Apply theoretical models and frameworks to real life scenarios and/or case studies. | $\begin{aligned} & 1,3,5 b, \\ & 1,3,5 b, 5 c, 6 a \\ & , 6 b \\ & 1,4,5 a, 5 c, 6 b \end{aligned}$ |
| C - Subject practical skills | C3.1 Present detailed drawings of both elements of buildings and their layout. <br> C3.2 Apply prescribed standard methodologies to measure, cost and value built environments. | $\begin{aligned} & 1,5 b, 5 a \\ & 4,5 a, 5 b, 5 c, 6 \\ & b \end{aligned}$ |
| D - Key / <br> Transferable skills | D3.1 Communicate appropriately and effectively. <br> D3.2 Apply various numerical techniques. <br> D3.3 Use information technology to collect, sort and present data. <br> D3.4 Work with others in order to achieve a common aim. <br> D3.5 Manage the development of their own learning and academic study skills (with some support). | $\begin{aligned} & \text { All } \\ & 4,5 a, 5 c, 6 b \\ & 1,3,4,5 c, 6 b \\ & 1,2,3 \\ & \text { All } \end{aligned}$ |

## Programme Structure

| Code | Level | Credits | Core <br> /Elective |  |
| :--- | :--- | :---: | :---: | :---: |
| MAN3COR | 0: Personal Effectiveness | 3 | 3 | C |
| CON3TEC | 1: Construction Technology | 3 | 7 | C |
| LAW3LRH | 2: Law, Regulations and H\&S | 3 | 7 | C |
| DEV3SUS | 3: Sustainability | 3 | 7 | C |
| ECO3ECP | 4: Economics, Measurement and Data | 3 | 7 | C |
| VAL3VAA | 5a: Valuation and appraisal | 3 | 7 | E |
| CON3BPA | 5b: Building Pathology | 3 | 7 | E |
| CON3CCP | 5c: Costing and Cost Planning of Construction <br> Works | 3 | 7 | E |
| LAW3PPL | 6a: Property and Planning Law | 3 | 7 | E |
| CON3TPC | 6b: Tendering, Procurement and Contracts | 3 | 7 | E |
| Notes: | Electives are to support specific specialist pathways: (see below for the guide). <br> BS - Building Surveying. <br> QS - Quantity Surveying. <br> REM - Real Estate Management. |  |  |  |

## Surveying Technician Diploma

Delivery Structure

## Level 3 Surveying Technician Diploma Apprenticeship



## CORE UNITS:

UNIT 1: Construction Technology
UNIT 2: Law Regulations and H\&S
UNT 3: Sustainability
UNT 4: Economics, Measurement and Data

## PATHWAYS:

BS- Building Surveying
QS- Quantity Surveying
REM- Real Estate Management

SPECIALIST UNITS:
UNT 5:
BS- Building Pathology
REM- Valuation and Appraisal
QS- Costing and Cost Planning of Construction Works UNT 6:
BS \& QS - Procurement and Contracts
REM- Property and Planning Law

Note: Personal effectiveness component is a three-credit bearing, supportive additional learning element.

UCEM will consider other combinations of specialist units that fall outside of the prescribed pathways. This could include any combination of specialist units. Variations would need to be agreed at the point of registration and are made at UCEM's discretion.

## Unit Summaries

## Core Units

## 0: Personal Effectiveness:

This unit is designed to provide students with the opportunity to develop reflective practice skills for personal development, particularly for academic skills required to study both online and to meet the needs of the qualification.

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## 1: Construction Technology

This unit is designed to provide students with a basis of understanding why buildings are built using the techniques, methods and materials commonly utilised, which then leads to an examination of the reasons why such low-rise structures can fail to perform the function required.

2: Law, Regulations and Health \& Safety
This unit is designed to provide students with an understanding of the English legal system, the basics of contract and tort law, an appreciation of the laws and regulation relating to Health and Safety (H\&S), and other regulations and codes of practice affecting the built environment.

## 3: Sustainability

This unit is designed to provide students with an understanding of the concepts of sustainability, the importance to the built environment and how legislation and regulations are used to promote it.

## 4: Economics, Measurement and Data

This unit is designed to provide students with an understanding of the basic principles of economics, measurement and data collection, and their applications to construction and the built environment.

## Elective Specialist Units

Students will study specialist, elective units, one of $5 \mathrm{a}, \mathrm{b}$ or c , and one 6 a or b according to their selected pathway, or as otherwise agreed by UCEM at the point of registration.

5a: Valuation and Appraisal
This unit is a specialist, elective unit for students on the real estate management pathway, designed to enable students to examine the reasons for standard methods of valuation, how they work and why they should be used, and then to use the methods to provide both capital and rental valuations.

## 5b: Building Pathology

This unit is a specialist, elective unit for students on the building surveying pathway, designed to enable students to understand the reasons why buildings fail and to recognise and diagnose causes and mechanisms of the failure.

5c: Costing and Cost Planning of Construction Works
This unit is a specialist, elective unit for students on the quantity surveying pathway, designed to provide students with an understanding of standard approaches to the production of and the use of costing and cost plans for construction works.
6a: Property and Planning Law
This unit is a specialist, elective unit for students on the real estate management pathway. It allows students to take a further look at law, as applied to land property and planning.
6b: Tendering, Procurement and Contracts
This unit is a specialist, elective unit for students on the quantity and building surveying pathways, designed to provide students with an appreciation of tendering and procurement, and associated contracts used in the construction industry.

## Learning, Teaching and Assessment

## Learning \& Teaching Strategy

The programme is blended in its approach, effectively using the online content as the knowledge and content store, with a mixture of online activities based on UCEM's VLE and forums to support the development of the learning. The content will represent a mixture of theory and case studies utilising mixed media presentation of audio, video and screen-based presentations; e-Learning, including core texts (such as eBooks and study papers); and quizzes.
The VLE sessions for each unit are broken up into eight stages to lead the students through their learning and pace their learning journey. The initial stage ensures the students are ready to learn, and in particular readied for online study. This will include, in their first year, an induction onto the programme. This stage on also incorporates the Personal Effectiveness unit running through both years.
The last stage is focused on ensuring all students submit their completed portfolio of evidence.


The middle six stages are in designed in pairs based on the specific learning outcomes on the unit. These learning outcomes are then broken down into two learning points per stage, which drive the VLE content, activities and the monthly full day workshop sessions which complement the VLE study. These workshop sessions create the opportunity to apply the concepts, theories, models and engage creatively in the subject matter.
The workshop coordinator is responsible for facilitating discussions, interacting with students and driving project work. This follows in many ways the flipped learning approach, for which the Flipped Learning Network (2015) provide the following definition:
"Flipped Learning is a pedagogical approach in which direct instruction moves from the group learning space to the individual learning, space, and the resulting group space is transformed into a dynamic, interactive learning environment where the educator guides students as they apply concepts and engage creatively in the subject matter."
By utilising the flipped learning pedagogy to inform the blended learning approach, all units will have a similar feel and unified experience for the students. It will ensure that the students are enabled to approach their learning understanding the needs for each unit.
The middle six stages are made up of approximately:

- six hours guided learning on VLE (including approximately one hour for assessment);
- three hours self-directed study;
- 2 hours guided learning at during workshops.


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Flipped Learning Network. 2015. Definition of Flipped learning [online], please click here. [accessed 15/09/2015].

## Learning Diet:

| Contact \& Study <br> Hours: | Total <br> Qualification <br> Time (TQT) | Total Guided <br> Learning <br> Hours (GLH) |
| :---: | :--- | :--- |
|  | 450 | 318 |

## Assessment Strategy

The approach to assessment is also a blended approach. On each unit students have formative assessment activities in the form of quizzes housed on the VLE, Computer Marked Assessments (CMAs) provide an element of summative assessment which contributes $20 \%$ to each unit, mainly testing knowledge and understanding. CMAs comprise of multiple choice questions and take place within stage three, stage five and stage seven. The middle six stages are designed to meet the learning outcomes (see below) in pairs. The first of the pair providing formative assessment through quizzes and the latter of the pair providing summative assessment through CMAs.


The VLE based discussion forums are used to enable students to interact and discuss their learning with each other, which is particularly important in the blended approach undertaken.
The main portion of assessment comes in the form of portfolios of evidence which are produced throughout the study on the units. This portfolio-based assessment strategy fulfils the requirements for the assessment plan for the Level 3 Surveying Technician Diploma Apprenticeship. Much of the content will be produced by the individual in working alone, but informed by the workshop sessions and associated group work which enables the exploration and engagement with the learning. Students are required to submit assessments in accordance with specified timescales.
In the first year of the programme, the portfolio of evidence is based upon a single project scenario which the students will be working upon. The scenario is based upon the development of a low rise property; the students will work collectively in groups and individually on certain elements to incorporate all the learning outcomes from the respective units studied.
In the second year, the students have a choice of unit options for two of the three units and each unit has its own portfolio. These projects will demonstrate and evidence the attainment of the learning outcomes of the units. Additionally, this will support onward attainment of AssocRICS following successful completion of the Level 3 Diploma.

## Assessment Diet:

Seven Credit units,

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Year one:
Project portfolio (covering the three Units) - 80% per unit, and,
Three CMAs - 20% per unit.
Year two:
Portfolio of evidence - 80% per unit, and,
Three CMAs - 20% per unit.
Personal Effectiveness:
Three-credit unit.
Year one and Year two:
Portfolio of evidence - 100%
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## Study support

## Level 3 Induction Unit:

Level 3 students are expected to complete induction activities within Unit 0: Personal Effectiveness. The activities are designed to equip students with the skills they need to study at UCEM. Resources within the personal effectiveness unit are available to the students through the duration of their study with UCEM.

In addition to the activities within the Personal Effectiveness unit, Level 3 students will receive an introductory workshop for induction purposes, which will take place prior to formal commencement of their studies.

## Student Learning Support:

The programme is delivered via UCEM's Virtual Learning Environment (VLE), and academic teaching and support is provided online and through workshops, giving students access to UCEM tutors and other students.

UCEM Student Central will act as the main point of contact for students throughout the duration of their programme. The academic team will guide and support students' learning. Other UCEM teams provide support for coursework, exams and technical issues, including Information and Communication Technology. Each student, wherever their location, will have access to a wealth of library and online materials to support their studies.
English Language Support:
For those students whose first language is not English, or those students who wish to develop their English Language skills, additional support is provided through online resources on the VLE in the resource 'Developing Academic Writing'.
The resource includes topics such as sentence structure, writing essays and guidance for writing aimed at developing students study skills.

## Personal and Professional Development:

The incorporation in the programme of a three-credit bearing additional learning unit on Personal Effectiveness is designed to ensure that the student reflects upon their own abilities and what they themselves need to do to improve. It is in effect a driver for personal academic development. Having identified areas of focus, whilst not part of the programme or its units, students are provided with access to a range of study development materials.

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This programme is part of an apprenticeship, principled upon developing the students personally with the skills and knowledge required for a career as a technician surveyor, and an understanding of the requirements of the work place. Learners are provided with opportunities to develop an understanding of fundamental British Values, risks they might face in their lives, and how to keep themselves safe - helping them to become valuable members of society. The development of professional skills for the workplace, and in particular the necessary understanding and consideration of ethical practices, runs through all units on this programme. Consideration and application of these issues occur in the workshops, as students work on scenarios and compile their e-portfolios.

## Programme Specific Support:

As a blended learning programme, the students are in regular monthly workshops with tutors, to support their progress through their studies. The Personal Effectiveness unit covering additional learning provides support and academic materials for academic writing, numeracy, information communication technology and reflective practice.

## QAA Benchmark Mapping

N/A as a level 3 qualification it is aligned with RQF - Ofqual, please click here (accessed 22/09/2016).
This sets out a level 3 qualification as:

## LEVEL 3

Knowledge descriptor (the holder...)
Has factual, procedural and theoretical knowledge and understanding of a subject or field of work to complete tasks and address problems that while well-defined, may be complex and non-routine. Can interpret and evaluate relevant information and ideas. Is aware of the nature of the area of study or work. Is aware of different perspectives or approaches within the area of study or work.

Skills descriptor (the holder can...)
Identify, select and use appropriate cognitive and practical skills, methods and procedures to address problems that while well- defined, may be complex and non-routine. Use appropriate investigation to inform actions. Review how effective methods and actions have been.
Please click here for the Total Qualification Time Criteria (Ofqual, September 2015).

## PSRB Benchmark Mapping

The below table maps the programme and its units against the approved apprenticeship framework and assessment plan.

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|  |  | What is required in the context of land, property and construction: | What is required - in the context of the surveying environment: | Standard and key requirements | Standard and key requirements |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | CORE <br> KNOWLEDGE | CORE SKILLS | CORE KNOWLEDGE | CORE SKILLS |
| CORE Units | Learning Outcomes |  |  | CK 6 Construction Technology | CS 4 Construction Technology |
| Unit 1: <br> Construction Technology | LO1: Illustrate low-rise domestic building construction techniques and services, and identify their function within the building they serve. | Describe the technology of low rise buildings including materials. | Apply the principles of construction technology and the environmental performance of materials. | CK6.1 Low rise domestic building construction techniques and services. | CS4.1 Read and interpret design drawings. |
|  | domestic buildings given the required function and their properties, including their environmental performance. |  |  | CK6.1 Construction materials for low rise domestic buildings. | CS4.2 Identify construction materials for low rise domestic buildings. |
|  | LO3: Recognise the main principle causes of building failure. |  |  | CK6.2 Principles of building failure. | CS4.3 Identify causes of failure in construction materials and assess their performance. |
|  |  |  |  | CK 1 Law | CS3 Law |

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|  |  | What is required in the context of land, property and construction: | What is required - in the context of the surveying environment: | Standard and key requirements | Standard and key requirements |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unit 2: Law Regulations and Health and Safety | L01: Describe and discuss the workings of the English legal system. | Outline the English legal system, law of contract and law of tort. | Apply the principles of contract law to include either contracts for acquisition/disp osal of property, standard forms of building contracts or other property related contracts. | CK1.1 The English legal system. | CS3.1 Apply contract law to either contracts for acquisition/ disposal of property, standard forms of building contracts or other property related contracts. |
|  | LO2: Outline the principles of law of contract and law of tort. |  |  | CK1.2 Principles of law of contract. | CS3.2 Take action to avoid professional negligence. |

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|  |  | What is required in the context of land, property and construction: | What is required - in the context of the surveying environment: | Standard and key requirements | Standard and key requirements |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unit 2: Law Regulations and Health and Safety | LO3: Describe the principles and responsibilities relating to Health \& Safety imposed by law, codes of practice, building regulations and other regulations affecting the built environment. |  |  | CK1.3 Principles of law of tort. This will include duty of care, negligence, nuisance, trespass and remedies. | CS3.3 Demonstrate compliance with legal requirements relevant to the area of practice. |
|  |  |  |  | CK4 Health and Safety | CS2 Health and Safety |
|  |  | Describe the principles and responsibilities imposed by law, codes of practice and other regulations. | Demonstrate the application of health and safety issues and the requirements for compliance. | CK4.1 Principles of health and safety. | CS2.1 Apply health and safety procedures. |
|  |  |  |  | CK4.2 Health and safety legislation. | CS2.2 Demonstrate compliance with health and safety legislation and regulation. |
|  |  |  |  | CK4.3 Codes of practice and regulations. | CS2.3 Personal safety. |
|  |  |  |  | CK3 Economics |  |

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|  |  | What is required in the context of land, property and construction: | What is required - in the context of the surveying environment: | Standard and key requirements | Standard and key requirements |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unit 4: Economics, Measurement and Data | LO1: Describe the implications of the basic principles of economics upon the construction industry, including their effect on property and construction markets. | Be aware of economic principles and the operation of economic and property/ construction markets. |  | CK3.1 Basic economic principles. |  |
|  | LO2: Explain principles of measurement and key mathematical principles relating to data collection. |  |  | CK3.2 The principles of economics markets. |  |
|  | LO3: Explain the importance of accuracy of measurement, data management and data confidentiality. |  |  | CK3.3 The property and construction market. |  |
|  |  |  |  | CK2 Data Collection | CS1 Data Collection |

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## Unit 4: Economics, Measurement and Data

| What is required - <br> in the context of <br> land, property and <br> construction: | What is required <br> -in the context <br> of the surveying <br> environment: | Standard and key <br> requirements | Standard and key <br> requirements |
| :---: | :---: | :--- | :--- |
| Explain key <br> mathematical <br> principles, <br> principles of <br> measurement, the <br> importance of <br> accuracy, data <br> management and <br> confidentiality. | Measure and <br> collect data <br> relevant to the <br> surveying <br> discipline. | CK2.1 Key mathematical <br> principles relating to data <br> collection. | CS1.1 Collect relevant <br> data. |
|  |  | CK2.2 Principles of <br> measurement and <br> importance of accuracy. | CS1.2 Take <br> measurements. |
|  | CK2.3 Data management <br> and confidentiality. | CS1.3 Provide data to <br> others. |  |

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|  |  | What is required - in the context of land, property and construction: | What is required - in the context of the surveying environment: | Standard and key requirements | Standard and key requirements |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | CORE KNOWLEDGE | CORE SKILLS | CORE KNOWLEDGE | CORE KNOWLEDGE |
| CORE Units | Learning Outcomes |  |  | CK7 Personal Effectiveness | CS5 Personal Effectiveness |
| Personal Effectiveness | LO1: Utilise reflective thinking and practice to assess personal development and development needs. | Explain how to manage own time and tasks, communicate and negotiate effectively. | Manage own time and tasks, communicate and negotiate effectively. | CK7.1 The importance of managing time and tasks. | CS5.1 Manage time and tasks. |
|  | LO2: Identify personal academic skills capabilities and identify areas for improvement. |  |  | CK7.2 Effective written and verbal communication. | CS5.2 Communicate effectively. |
|  |  |  |  | CK7.3 Negotiation. | CS5.3 Negotiate effectively. |

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|  |  | What is required <br> - in the context of land, property and construction: | What is required - in the context of the surveying environment: | Standard and key requirements | Standard and key requirements |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Specialist Units |  |  |  |  |  |
|  |  |  |  | CKa Valuation and Appraisal | CSa Valuation and Appraisal |
| Unit 5 REM: Valuation and Appraisal | LO1: Describe the reasons for undertaking standard processes of valuation. | Describe the reasons for valuations and the methods to provide both capital and rental valuation advice. | Undertake capital and rental valuations and demonstrate involvement with the preparation of client reports. Use a variety of valuation methods and techniques and use the relevant valuation standards and guidance. | CKa. 1 Reasons for valuations, Professional Standards and identifying clients' requirements. | CSa. 1 Identify clients' requirements. |
|  | LO2: Identify the common methods used to provide capital and rental valuation. |  |  | CKa. 2 Basic calculations from supplied date for capital and rental valuations in given scenarios. | CSa. 2 Impact and measure. |

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|  |  | What is required - in the context of land, property and construction: | What is required <br> - in the context of the surveying environment: | Standard and key requirements | Standard and key requirements |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | LO3: Be guided to undertake simple freehold and leasehold valuations. |  |  |  |  |
|  |  |  |  | CKb Building Pathology | CSb Building Surveys |
| Unit 5 BS: Building Pathology | LO1: Describe the common causes of building material failure. | Be aware of common building defects, including collection of information, measurement and tests. | Undertake surveys, using survey and other information to diagnose cause and mechanisms of failure. | CKb. 1 Materials, properties and failure. | CSb. 1 Inspect and survey. |
|  | LO2: Recognise reasons for common building defect and how they are diagnosed. |  |  | CKb. 2 Building performance and failure. | CSb. 2 Diagnose defects. |
|  | LO3: Undertake simple surveys and utilise survey information to determine mechanisms of failure. |  |  | CKb. 3 Common building defects. | CSb. 3 Survey analysis. |

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|  |  | What is required - in the context of land, property and construction: | What is required - in the context of the surveying environment: | Standard and key requirements | Standard and key requirements |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | CKe Costing and Cost Planning of Construction Works | CSe Costing and Cost Planning of Construction Works |
| Unit 5 QS: Costing and Cost Planning of Construction Works | LO1: Describe the reasons for standard methods of measurements of construction works. | Be aware of the principles of quantification and costing of construction works and how cost planning assists in the financial control of projects. | Quantification, costing and cost management of construction works, including the use of appropriate standard methods of measurement and forms of cost analysis. | Ce. 1 Reasons for the standard methods of measurement. | CSe. 1 Use of appropriate standard methods of measurement. |
|  | LO2: Explain the principles of quantification and costing, and their interrelation to the financial control of construction projects. |  |  | CKe. 2 Principles of cost planning. | CSe. 2 Prepare order of cost estimate and cash flow forecast. |

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|  | What is required - in the context of land, property and construction: | What is required <br> - in the context of the surveying environment: | Standard and key requirements | Standard and key requirements |
| :---: | :---: | :---: | :---: | :---: |
| LO3: Utilise standard methods of measurement to quantify simple construction work with associated cost analysis. |  |  | CKe. 3 Measurement and estimation principles and financial control. | CSe. 3 C Application and adjustment of simple historic costs to give scenarios. |

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| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | CKc Planning and Property Law | CSc Property and Planning Law |
| Unit 6 REM: <br> Property and Planning Law | LO1: Explain the principles of land law. | Explain principles of land law, the law of landlord and tenant and planning law. | Apply the law and practice relation to at least two of property, landlord and tenant or planning. | CKc. 1 Ownership, registration and rights over land. | CSc. 1 Identification of title and rights over land.. |
|  | LO2: Explain the principles of the law of landlord and tenant. |  |  | CKc. 2 Lease types, lease terms and termination. | CSc. 2 Identification of lease terms, duties and rights. |
|  | LO3: Explain the principles of planning law. |  |  | CKc. 3 Principles of planning law. | CSc. 3 Implementation of planning law principles. |
|  |  |  |  | CKd Procurement and Contracts | CSd Tendering and Procurement |
| Unit 6 BS \& QS: Tendering, Procurement and Contracts | LO1: Describe the main types of procurement and tendering processes used in the construction industry. | Describe the main types of procurement and tendering, and the various forms of contract used in the construction industry. | Implement procurement routes selected for projects and carrying out tendering processes relevant to them. | CKd. 1 Principles of procurement, tendering and evaluation. | CSd. 1 Identification of appropriate procurement routes. |

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| Unit 6 BS \& QS: <br> Tendering, Procurement and Contracts | LO2: Describe the various forms of contract used in the construction industry. |  |  | CKd. 2 Knowledge of alternative forms of contract and their appropriate use. | CSd. 2 Implementation of appropriate contract selection. |
|  | LO3: Investigate the use of procurement, tendering and contracts used on construction projects. |  |  | CKd. 3 Appreciation of alternative construction contracts and their provisions. | CSd. 3 Use of contract provisions to administer the project effectively. |

