

apprenticeship FRAMEWORK

Higher Apprenticeship in Construction Management Level 4, 5 and 6 (Wales)

IMPORTANT NOTIFICATION FOR ALL APPRENTICESHIP STARTS FROM 14 OCTOBER 2016

Modifications to SASW came into effect on 14 October 2016. These changes relate to the **Essential Skills and Employer Rights and Responsibilities** requirements of a framework and they **ONLY** apply to new Apprenticeship starts on, or after, 14th October. Apprenticeship starts before this date must continue to meet the 2013 SASW requirements for Essential Skills and Employer Rights and Responsibilities.

For more details of the changes and how they will affect new apprenticeship starts, please read the following preface page to the framework document. NB: Please check the "Revising a Framework" section for information on any additional changes that may have been made to this framework.

Latest framework version?

For any previous versions of this framework: www.acwcerts.co.uk/framework_library

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Higher Apprenticeship in Construction Management Level 4, 5 and 6 (Wales)

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Framework information

Information on the Issuing Authority for this framework:

CITB

The Apprenticeship sector for occupations in construction.

Issue number: 8	This framework includes:
Framework ID: FR05009	Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4-7 <input checked="" type="checkbox"/>
Date this framework is to be reviewed by: DD/MM/YYYY	This framework is for use in: Wales

Short description

The construction industry has had for many years a Higher Apprenticeship programme This framework will help to attract, retain and develop talent into a range of occupations at Higher (Level 4, 5, 6) and provide the industry with a well-trained productive workforce. The Higher Apprenticeship in Construction Management at Levels 4, 5 and 6 will help to attract and provide progression for higher technicians, professionals and managers in a range of careers in construction and the built environment

Contact information

Proposer of this framework

Construction Higher at Level 4, 5, 6 (Wales)

Proposer of the Framework

The proposers for the pathways within the Construction Higher Framework are the following Awarding Organisations (AO): Cskills Awards, SQA Awarding Body, Qualifications Wales, Pearson Education Ltd, Construction Industry Council (CIC) and Wrexham Glyndwr University. ConstructionSkills' policy is to work with all proposers of the apprenticeship framework to ensure that the qualifications included in the frameworks meet both employer and SASW requirements.

The guidelines produced by ConstructionSkills have identified that to gain support for their Apprenticeship Frameworks proposers must provide the following information: rationale, support from the sector employers, take-up figures and operational dates.

All of the proposers of the framework have completed the mandatory AO Qualification Support Application Section 3 (supplied by ConstructionSkills) which requires the proposer to provide a summary of their overall approach to employer engagement, names of employers, industry representatives or Associations/Federations that have been consulted in the development of the current framework.

All of this information is then considered by ConstructionSkills Apprenticeship Group to ascertain whether the qualifications are suitable for inclusion/revision before entry onto the AFO. The proposer will then be informed of the outcome and whether further information is required; if compliant the details will be included into the draft framework prior to uploading to the AFO

ConstructionSkills' Standards and Qualifications Apprenticeship Group, which consists of members of the CITB Standard Setting Body, also review any new Apprenticeship pathways, at all levels when required, to ensure that the proposal is beneficial to the construction industry and its employees.

Details of the AO Qualification Support Application and Section 3 can be requested at standards.qualifications@citb.co.uk

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Revising a framework

Why this framework is being revised

Level 4 Pathway 1

- Add University of Wales Trinity Saint David HNC in Construction Management and Technology (L4) knowledge qualification – 120 credits qualification to be added to Level 4 Pathway 1: Higher Apprenticeship in Construction Site Supervision (Construction) – Level 4.

Level 5 Pathway 2 (New)

- Add University of Wales Trinity Saint David FdSc in Construction Management and Technology (L5) (Foundation Degree) – 240 credits (to include 120 credits L4 HNC) qualification to be added to Pathway 2 (Level 5): Higher Apprenticeship in Construction Management & Technology - Level 5.

Summary of changes made to this framework

Level 4 pathway 1

Introduction and write-up changes for the inclusion of

University of Wales Trinity Saint David HNC in Construction Management and Technology (L4) knowledge qualification

Level 5 pathway 2 (New)

Introduction and write-up change for the inclusion of

University of Wales Trinity Saint David FdSc in Construction Management and Technology (L5) (Foundation Degree)

Qualifications removed

N/A

Qualifications added

Level 4 Pathway 1

- University of Wales Trinity Saint David HNC in Construction Management and Technology (L4) – 120 credits

Level 5 pathway 2 (New)

- University of Wales Trinity Saint David FdSc in Construction Management and Technology (L5) – 240 credits (to include 120 credits L4 HNC).

Qualifications that have been extended

N/A

Purpose of this framework

Summary of the purpose of the framework

Summary of the purpose of the framework

CITB-ConstructionSkills Apprenticeship Definition as defined by the Construction Industry

Definition

An apprenticeship in construction is a form of vocational training whereby the apprentice follows a ConstructionSkills' approved framework to develop skills and knowledge and who would then demonstrate and evidence their application in a construction environment. In order to complete a Construction Apprenticeship the apprentice must have been employed during the apprenticeship, have evidenced competence in the specified range of vocational skills and have an employed status at the time of completion.

Stakeholders

The core participants involved in a Construction Apprenticeship are:

- Employer – the primary provider of learning in the workplace, and supports the apprentice through mentoring, learning and payment of wages
- Apprentice – contributes to the productivity of the employer and undertakes the requisite learning
- Training provider – provides off-site tuition and administrative support to both the employer and apprentice. (Training providers can include colleges, training centres, manufacturers, suppliers and some employers.)
- Government – provides a financial contribution to the training costs of the apprenticeship
- Managing agent – sets up and monitors the apprenticeship and obtains and distributes the government funding. The managing agent can also be the training provider or the employer. (Apprentices can choose not to have a managing agent.)

Higher Apprenticeship Frameworks Definition

"Higher Apprenticeships are national work-based programmes based on employer need that enable individuals in employment to develop the technical knowledge and competence to perform a defined job role. As such, a Higher Apprenticeship is not just a learning programme, but an approach to workforce development and enhancing business performance."

There are 110,740 employees in construction in Wales in year 2015, it is estimated to increase to 113,530 in 2017, and up to 127,840 in 2021. The following is the annual recruitment for Construction Technical, Supervision and Management for the period 2017 to 2021.

- Construction professionals and technical staff 980
- Construction Managers 180
- Surveyors 640
- Architects 190

- Supervisors 540

The priorities for the sector for 2017 to 2021 are to:

- improve productivity
- attract, retain and develop talent
- increase diversity
- improve supervisory, management and leadership skills
- collaborate with employers and stakeholders.
- Involvement of professional bodies in the promotion of Higher Apprenticeships

An Apprenticeship in construction follows a pattern of vocational training to meet the requirements of a ConstructionSkills' approved framework. This enables them to develop skills and knowledge which they can then demonstrate and evidence in a real construction environment.

The Higher Apprenticeship (Level 4,5,6) has been meeting the needs of employers since 2015. This apprenticeship has been developed to help meet the skills priorities of the industry and for Wales by:

- continuing to provide qualifications required by employers to help their business grow
- to provide a career pathway to supervisory and management levels
- meeting the requirements of the Specification of Apprenticeship Standards for Wales (SASW)
- by incorporating Essential Skills Wales at level 2 thereby improving the levels of basic literacy and numeracy skills in the workforce
- wider Key Skills
- providing qualifications for competence and knowledge, approved by employers to meet the skills mix they require
- providing progress pathways from Foundation (level 2), Apprenticeship (level 3) to Higher (level 4 and above)
- addressing skills gaps and shortages in priority sectors in Wales such as the under representation of women and ethnic minorities.

This framework includes the following occupations at Higher Apprenticeship (Level 4, 5, 6)

Higher (Level 4, 5, 6)

- Pathway 1: Construction Site Supervision (Level 4)
- Pathway 2: Construction Management (Sustainability) Level 5
- Pathway 3: Construction Site Management (level 6)

Aims and objectives of this framework (Wales)

Aims and objectives of this framework (Wales)

The aim of this framework is to attract, retain and develop talent into a range of occupations at higher Level 4, 5 and 6 in construction supervision and management in order to provide the industry with a well-trained productive workforce.

- Widening the pool of talent from which future Construction Site Managers are drawn
- Providing appropriate support and development to future Construction Site Managers through a comprehensive and integrated approach to learning and skills development
- Enabling progression opportunities from a variety of entry points including, University, FE college and the existing workforce
- Preparing future talent for membership of the appropriate professional body
- Enhancing the diversity of membership of the built environment professional bodies and increasing social mobility
- Improving construction site management skills and knowledge

Entry conditions for this framework

Entry Conditions

The Higher Level Apprenticeship in Construction Site Supervision (Construction) -Level 4 (HNC)

Candidates need to be of employed status and working within a supervisory capacity within the industry to meet the requirement of this pathway.

The Higher Level Apprenticeship in Construction Site Supervision (Construction) – Level 4 (HNC) has been developed to meet the need of the following sectors, Building and Civil Engineering, Highways and Maintenance Repairs, Residential Development, Conservation, Demolition and Tunnelling, this broad range of occupational areas is designed to assess occupational competence in the workplace and demonstrate knowledge and understanding through the technical certificate for candidates with appropriate prior experience of work in the sectors identified. As a consequence the qualification is not suitable for younger (pre18+) learners. The introduction of the Higher Level 4 Apprenticeship will address the following:

- Provide progression from Occupational Work Supervision
- Provide progression onto Level 5 and above
- Allow entry onto degree programmes
- Assist retention and provide a pathway for experienced workers
- Improving supervisory, management and leadership skills

The Higher Level Apprenticeship in Construction Site Supervision (Construction) -Level 4 (CIOB Certificate)

Candidates need to be of employed status and working within a supervisory capacity within the industry to meet the requirement of this pathway.

Higher (Level 4) Construction Site Supervision (CIOB Certificate) is specifically designed to meet the needs of candidates who have gained Level 3 qualification as listed in the entry and permitted entry requirements or those with appropriate prior experience of work in the sector, appropriate experience is deemed as: at least two years site experience. As a consequence the qualification is not suitable for younger (pre18+) learners.

All candidates must have a suitable level of physical fitness to perform aspects of the job (e.g. working out-doors in all seasonal weather conditions this could also be at height or below ground).

The Higher Level Apprenticeship in Construction Site Supervision (Construction -Level 4 HNC Wrexham Glyndwr University for HNC Building Studies and HNC Civil Engineering

Higher apprenticeships are being driven by industry and employers in Wales Coleg Menai and Coleg Cambria are partners with Glyndwr University and both offer HNC's in Construction

through the University, therefore, this creates a demand for a higher apprenticeship framework which includes the Glyndwr HNC in Building Studies and a HNC in Civil Engineering.

Candidates need to be of employed status and working within a supervisory capacity within the industry to meet the requirement of this pathway.

As a consequence the qualification is not suitable for younger (pre18+) learners. The introduction of the HNC in Building Studies and Civil Engineering will provide the following:

- Provide progression from Occupational Work Supervision
- Provide progression onto Level 5 and above
- Allow entry onto degree programmes
- Assist retention and provide a pathway for experienced workers
- Improving supervisory, management and leadership skills

The HNCs in this pathway are delivered on a day release basis over two years.

The Higher Level Apprenticeship in Construction Site Supervision (Construction -Level 4 Bangor University Certificate in Higher Education Construction and Civil Engineering

Programme Delivery

Teaching and Learning

Minimum time on programme is 20 months

Delivery is through a blend of the following:

Lectures are a very effective way of delivering core material and establishing a framework for a module against which other material can be set. Students will be made aware of the content of each module and issued with a list of the topics to be covered as well as sources of additional material (required and recommended reading) via the student homepage.

The student home page via the College MOODLE facility allows students to access their modules, with their learning resources and assessments. This allows the students to preview what will be covered and also revisit items post lectures.

Workshops and practical work are utilised to complement lectures enabling learners to participate in activities that reinforce theory and develop understanding and skills.

The surveying module is done as a one-week practical in the last week in October. Using the campus as topography to be surveyed, students do typical industry exercises and tasks with hired electronic equipment.

During the year two weeks are set aside for trips and excursions to see and do things that cannot be easily simulated in the class. In October and February days are put aside for visits to local companies and localities to see industry in action and get up to date knowledge and expert discussion from the facilitators.

Tutorials are meetings with a student or group of students facilitated by a lecturer or lecturers and are used in three ways within the award:

- To expand upon and consolidate material covered in lectures through an enquiry-driven problem solving approach.
- As an opportunity to discuss and develop subject material.

- To undertake remedial work to overcome any deficiencies in a student's background knowledge.

Employment based Learning - Within the Certificate for Higher Education programme two modules comprise the vocational practice element centred upon the work place. Learners carry out a number of employment related tasks and log the time undertaken. This is supported monitored and assessed by the work-based Lecturer assigned with support from the other tutors and local employers.

The two modules are: Employer Based Learning (10 Credits) Year 1
Computer Aided Design Using BIM (15 Credits) Year 1

The employment-based learning requires students to reflect upon their employment practices and make links between theoretical based modules and the work environment. The students produce portfolios of evidence based on legal and contractual procedures, health and safety and Information and communication technologies development.

Student centred learning is the generic term used to differentiate between student contact with tutors using the methods listed above and the student's own effort outside the normal structured teaching environment. It includes student's own primary research and information gathering. The time expected to complete this work and complete assignments, projects or presentations is shown in each module descriptor under the heading "Teaching and Learning Strategy". It is expected that this time allocation to a module indicates to the student the effort required on their behalf. This time given is not restrictive and more able students will often expend more time than this in the completion of their own learning.

Higher Apprenticeship in Construction Site Supervision (Construction) – Level 4 (University of Wales Trinity Saint David HNC in Construction Management and Technology)

The Higher Level Apprenticeship in Construction Management and Technology - Level 4 has been developed to meet the needs of the Built Environment sector to include a broad range of occupational areas. The framework is designed to assess occupational competencies in the workplace and demonstrate knowledge and understanding through the Higher National Certificate qualification. The introduction of this framework will address the following industry requirements:

- Provide progression for school leavers with A level and L3 technical or trade related qualifications onto a higher-level vocational industry framework.
- Allow a step approach to attaining higher level qualifications.
- Provide progression onto Level 5 and above
- Allow entry onto degree programmes
- Assist retention and provide a pathway for experienced workers
- Improving supervisory, management and leadership skills in the industry.

The Higher Apprenticeship in Construction Management (Sustainability) - Level 5

Candidates need to be of employed status and working within a management capacity within the industry to meet the requirement of this pathway.

The Higher Apprenticeship in Construction Management (Sustainability) - Level 5 has been developed to allow Technicians from around the country who are employees of some of the top built environment organisations to be able to demonstrate their skills and knowledge in the workplace through the NVQ Level 5 whilst at the same time extending their learning at college or university through the HND Diploma Construction and the Built Environment. The introduction of the Higher Level Apprenticeship will address the following:

- Encouraging recruitment from a more diverse pool of talent
- Assisting retention by providing employers and employees with appropriate support and progression
- Promoting lifelong learning as an aid to achieving qualifications, career progression and CPD
- Improving supervisory, management and leadership skills
- Increasing employer investment in training and development to improve productivity

All candidates must have a suitable level of physical fitness to perform aspects of the job (e.g. working out-doors in all seasonal weather conditions this could also be at height or below ground).

The Higher Apprenticeship in Construction Management (Sustainability) -University of Wales Trinity Saint David (UWTSD) Higher National Diploma in Construction

Management at Level 5 This programme is specifically designed to meet the needs of candidates who have gained a Level 3 qualification (see list below). The programme may also be suitable for those with appropriate prior construction work experience of at least two years at technical or supervisory/managerial level:

- Certificate of Higher Education in Construction
- CIOB Level 3 Diploma in in Construction Site Supervisory Studies
- CIOB Level 4 Certificate or Diploma in Construction Site Management
- CIOB Higher Apprenticeship (Level 4) in Construction Site Supervision
- A Level 3 construction related technical apprenticeship
- A construction trades Level 3 Diploma and/or NVQ
- A minimum of two A levels, gaining a pass in at least one A2 subject at grade C or higher. Minimum grades accepted D.

Welsh and English language requirements:

- Welsh or English as first the language (normally an equivalent GCSE grade) or
- Any degrees, diplomas or certificates eligible above that has been taught and assessed in Welsh/English or
- For entry onto level 5: English fluency to IELTS score of 5.5 or higher (with no element less than 5.0)

Candidates need to be of employed status and working within a technical, supervisory or managerial capacity within the industry to meet the requirement of this pathway.

Entry into the Framework at Level 5 using one of the above qualifications will require employer's endorsement at point of entry ensuring that they will be working within a technical, supervisory or managerial capacity to meet the criteria of the framework components.

All candidates must have a suitable level of physical fitness to perform aspects of the job (e.g. working out-doors in all seasonal weather conditions this could also be at height or below ground). As a consequence the qualification is not suitable for younger (pre18+) learners.

The Higher Apprenticeship in Construction Management (Sustainability) -University of Wales Trinity Saint David (UWTSD) Higher National Diploma in Quantity Surveying at Level 5

This programme is specifically designed to meet the needs of candidates who have gained a Level 3 qualification (see list below). The programme may also be suitable for those with appropriate prior construction work experience of at least two years at technical or supervisory/managerial level:

- Certificate of Higher Education in Construction

- CIOB Level 3 Diploma in Construction Site Supervisory Studies
- A Level 3 construction related technical apprenticeship
- A construction trades Level 3 Diploma and/or NVQ
- A minimum of two A levels, gaining a pass in at least one A2 subject at grade C or higher. Minimum grades accepted D.

Welsh and English language requirements:

- Welsh or English as first the language (normally an equivalent GCSE grade) or
- Any degrees, diplomas or certificates eligible above that has been taught and assessed in Welsh/English or
- For entry onto level 5: English fluency to IELTS score of 5.5 or higher (with no element less than 5.0)

Candidates need to be of employed status and working within a trainee technical, supervisory or managerial capacity within the industry to meet the requirement of this pathway.

Entry into the Framework at Level 5 using one of the above qualifications will require employer's endorsement at point of entry ensuring that they will be working within a technical, supervisory or managerial capacity to meet the criteria of the framework components.

All candidates must have a suitable level of physical fitness to perform aspects of the job (e.g. working out-doors in all seasonal weather conditions this could also be at height or below ground). As a consequence the qualification is not suitable for younger (pre18+) learners.

Higher Apprenticeship in Construction Management and Technology - Level 5 (University of Wales Trinity Saint David FdSc in Construction Management and Technology)

The Higher Level Apprenticeship Foundation Degree in Construction Management and Technology - Level 5 has been developed to meet the needs of the Built Environment sector to include a broad range of occupational areas. Candidates need to be of employed status and working within a managerial capacity within the industry to meet the requirement of this pathway. The framework is designed to assess occupational competencies in the workplace and demonstrate knowledge and understanding through the Foundation Degree qualification. The introduction of this framework will address the following industry requirements:

- Provide progression for Industry professionals who currently hold a 120 credit construction related L4 Higher National Certificate qualification.
- Allow a step approach to attaining higher level qualifications.
- Provide progression onto Level 6 degree programmes and above.
- Assist retention and provide a pathway for industry managers.
- Improving management and leadership skills in the industry.

- Direct entry onto Higher (Level 5) with University of Wales Trinity Saint David FdSc in Construction Management knowledge qualification within framework is specifically designed to meet the needs of candidates who have gained a 120 credit L4 construction related (Subject to RPL process) Higher National Certificate qualification or those with appropriate prior experience of work in the sectors identified and are able to attain 120 construction related credits at L4 through Accreditation of Prior (Experiential) Learning (AP(E)L) or other certified Recognition of Prior Learning (RPL). As a consequence the qualification is not suitable for younger (pre18+) learners. Entry into the framework at Level 5 will also require employer's endorsement at point of entry ensuring that they will be working within a managerial capacity to meet to the criteria of framework components.

The Higher Apprenticeship in Construction Management - Level 6

Candidates need to be of employed status and working within a management capacity within the industry to meet the requirement of this pathway.

The Higher Apprenticeship in Construction Management - Level 6 has been specifically designed to provide the opportunity for progression from level 5 such as the Higher Apprenticeship in Construction Operations Management as well as other relevant level 5 qualifications to work-based Honours degree with built in professional recognition. The programmes are also designed to provide the specialist pathway routes in Construction Site Management.

All candidates must have a suitable level of physical fitness to perform aspects of the job (e.g. working out-doors in all seasonal weather conditions this could also be at height or below ground).

RULES TO AVOID REPEATING QUALIFICATIONS

Processes exist to make sure that applicants with prior knowledge, qualifications and experience are not disadvantaged by having to repeat learning. Training providers and awarding organisations will be able to advise on the current rules for accrediting prior learning and recognising prior experience. Refer to the on and off the job training section for guidance about prior attainment and achievement. In the meantime, this is a short summary:

The framework will specify that an apprentice should achieve or have achieved one of the recognised "proxy" qualifications at the appropriate level within the framework as an alternative to Essential Skills Wales.

Higher Apprenticeships (Level 4, 5, 6): Where Essential Skills qualifications are specified in an apprenticeship framework (Level 4, 5, 6), the apprenticeship framework must specify as a Welsh certificate requirement, the acceptance of one of the following recognised proxy qualifications.

Communication:

- GCSE or iGCSE qualification in English language or literature to at least grade C (Level 2 equivalent); or
- Level Qualification in English language or literature to at least grade C; or
- A/AS Level qualification in English or literature to at least grade E; or
- SCQF Level 5 – Communication Core Skills (Oral communication and written communication); or
- SQA National 5 English; or
- Functional Skills or Key Skills literacy qualifications in English provided the proxy qualification(s) attained is at Level 2 or above.

Application of Number:

- GCSE or iGCSE qualification in Mathematics to at least grade C (Level 2 equivalent); or
- Level Qualification in Mathematics to at least grade C; or
- A/AS Level qualification in Mathematics to at least grade E; or
- SCQF Level 5 – Numeracy Core Skill (Graphical information and using number); or

- SQA National 5 Mathematics; or
- Functional Skills or Key Skills numeracy qualifications in Mathematics provided the proxy qualification(s) attained are at Level 2 or above

Knowledge qualifications.

If applicants already have one of the Level 4 or above Knowledge qualifications before they started their Apprenticeship, (see knowledge qualifications page in this framework) they can count this and do not have to redo the qualification, providing that they have achieved this qualification within 3 years of applying for the apprenticeship certificate. The hours they spent gaining this qualification will also count towards the minimum hours required for this framework.

Competence qualifications:

If applicants already have the competence qualification from the Higher Apprenticeship (Level 4 and above) for this apprenticeship framework (see the 'Qualifications' page for each pathway) they cannot use the competence qualification as a component part of this apprenticeship; competence qualifications must be achieved as part of the apprenticeship.

- Prior experience. Applicants already working in the sector will be able to have their prior experience recognised by the Awarding Organisation and this will count towards the competence and the knowledge qualifications in this framework.

Initial Assessment

Training providers and employers will use initial assessment to ensure that applicants have a fair opportunity to demonstrate their ability and to tailor programmes to meet individual needs, recognising prior qualifications and experience.

Apprentices following this framework can expect to be continually assessed to gauge their suitability for progression to a Higher Apprenticeship (Level 4 or above). In some occupational areas apprentices would be expected to work at height and outside in all weather conditions. They could also be expected to travel to sites, or in some cases, stay in lodgings whilst working away from home.

Level 4

Title for this framework at level 4

Construction Site Supervision

Pathways for the framework at level 4:

Pathway 1: Level 4 Construction Site Supervision

Level 4, Pathway 1: Level 4 Construction Site Supervision

Description of this pathway

Higher Apprenticeship Level 4 Pathway 1. Construction Site Supervision

Description of this pathway

Higher Apprenticeship Level 4: Construction Site Supervision using BTEC HNC

Total minimum credit value for this pathway is: 162 credits

85 credits for competence

65 credits for knowledge

12 credits for Essential Skills

Higher Apprenticeship Level 4: Construction Site Supervision using CIOB Certificate

Total minimum credit value for this pathway is: 129 credits

85 credits for competence

32 credits for knowledge

12 credits for Essential Skills

Higher Apprenticeship Level 4: Construction Site Supervision using Wrexham Glyndwr University HNC Building Studies or HNC Civil Engineering

Total minimum credit value for this pathway is: 247 credits

85 credits for competence

150 credits for knowledge

12 credits for Essential Skills

Higher Apprenticeship Level 4: Construction Site Supervision using Bangor University
Certificate of Higher Education in Construction and Civil Engineering

Total minimum credit value for this pathway is 217 credits

85 credits for competence

120 credits for knowledge

12 credits for Essential Skills

Higher Apprenticeship Level 4: Construction Site Supervision using the University of Wales
Trinity Saint David HNC in Construction Management and Technology qualification.

Total minimum credit value for this pathway is 217 credits

85 credits for competence

120 credits for knowledge

12 credits for Essential Skills

Entry requirements for this pathway in addition to the framework entry requirements

Entry requirements for this pathway in addition to the framework entry requirements

Higher (Level 4) Construction Site Supervision is specifically designed to meet the needs of candidates who have gained Level 3 qualification as identified in the entry and permitted entry requirements for each pathway or those with appropriate prior experience of work in the sectors identified as at least two years site experience. As a consequence the qualification is not suitable for younger (pre18+) learners. Candidates need to be of employed status and working within a supervisory capacity within the industry to meet the requirement of this pathway.

All candidates must have a suitable level of physical fitness to perform aspects of the job (e.g. working out-doors in all seasonal weather conditions this could also be at height or below ground).

Job title(s)	Job role(s)
Site Manager	Working on built environment projects assisting the Site Manager to, manage staff and budgets, ensuring contract is delivered on time and to programme, responsible for hiring staff, deliveries and quality management and costs.
Project Manager	Working on built environment projects assisting the Project Manager to operate the site in a safe and secure manner, providing management information for reports, assists in client liaison meetings and sub-contractor meetings.
Site Engineer	Working on built environment projects assisting the Site Engineer to survey and level sites, checking of drawings and quantities to ensure accuracy, organizes site facilities, monitors work of sub-contractors and attends site meetings.

Qualifications

Competence qualifications available to this pathway

C1 – Level 4 NVQ Diploma in Construction Site Supervision

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
C1a	601/4232/7	Pearson Edexcel	85	390	X
C1b	601/1899/4	City & Guilds	87	390	
C1c	601/2009/5	NOCN/Cskills Awards	123	390	
C1d	601/4254/6	SQA	87	390	

Knowledge qualifications available to this pathway

K1 – BTEC HNC Diploma in Construction and the Built Environment

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K1a	500/8276/0	Pearson Education Ltd	65	500	X

K2 – CIOB Level 4 Certificate in Site Management

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K2a	600/0529/4	CIOB	32	120	X

K3 – HNC Building Studies

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K3a	AG354 B	Wrexham Glyndwr University	150	2250	X

K4 – HNC Civil Engineering

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K4a	AG353 B	Wrexham Glyndwr University	150	2250	X

K5 – Pearson BTEC Level 4 Higher National Certificate in Construction and the Built Environment

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K5a	603/0465/0	Pearson Education Ltd	120	1200	X

K6 – Bangor University Certificate of Higher Education Construction and Civil Engineering

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K6a	BULM001	Bangor University	120	1200	X
K6b	BULM002	Bangor University	120	120	

K7 – BTEC Level 4 Higher National Certificate in Construction

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K7a	603/3416/0	Pearsons	120	480	X

K8 – University of Wales Trinity Saint David HNC in Construction Management and Technology

No.	Ref no.	Awarding organisation	Credit value	Learning Hours	UCAS points value
K8a	HA4CMT2020	University of Wales Trinity Saint David	120	1200	X

Combined qualifications available to this pathway

N/A

Relationship between competence and knowledge qualifications

C1 Level 4 NVQ Diploma in Construction Site Supervision credit 85-87 GLH 390 is underpinned by:

BTEC HNC Diploma in Construction and the Built Environment credit 65 GLH 500

The BTEC Level 4 HNC Diploma in Construction and the Built Environment provides underpinning knowledge for the following pathways:

Construction Site Supervision – Building and Civil Engineering

Construction Site Supervision – Highways and maintenance Repairs

Construction Site Supervision – Residential Development

Construction Site Supervision – Conservation

Construction Site Supervision – Demolition

Construction Site Supervision - Tunnelling

or

The CIOB Certificate in Site Management credit 32 GLH 120

or

Wrexham Glyndwr HNC Building Studies

Wrexham Glyndwr HNC Civil Engineering

or

Pearson BTEC Level 4 Higher National Certificate in Construction and The Built Environment provides underpinning knowledge for the following pathways:

General pathways are included within brackets in the qualification title:

Pearson BTEC Level 4 Higher National Certificate in Construction and The Built Environment (Construction)

Pearson BTEC Level 4 Higher National Certificate in Construction and The Built Environment (Civil Engineering)

Pearson BTEC Level 4 Higher National Certificate in Construction and The Built Environment (Building Services Engineering)

Pearson BTEC Level 4 Higher National Certificate in Construction and The Built Environment (Surveying)

or

Bangor University Certificate in Higher Education Construction

Bangor University Certificate in Higher Education Civil Engineering

Or

BTEC Level 4 Higher National Certificate in Construction credit 120 GLH 480

The BTEC Level 4 Higher National Certificate in Construction provides underpinning knowledge for the following pathways:

Construction Site Supervision – Building and Civil Engineering

Construction Site Supervision – Highways and maintenance Repairs

Construction Site Supervision – Residential Development

Construction Site Supervision – Conservation

Construction Site Supervision – Demolition

Construction Site Supervision - Tunnelling

Or

University of Wales Trinity Saint David HNC in Construction Management and Technology 1200 GLH 120 credits.

Essential Skills

An apprenticeship framework must specify as a Welsh certificate requirement the expected achievement levels of Essential Skills in Communication and the Application of Number.

Where Essential Skills qualifications are specified in an apprenticeship framework, the apprenticeship framework must specify the acceptance of a recognised proxy qualification for Communication and Application of Number.

Communication

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Communication achievement above the minimum SASW requirement? **YES** **NO**

If YES, please state the grade/level required for English and give a brief **REASON** as to why this is required:

Enter alternative grade/level requirements and reasons here.

Application of Number

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Application of Number achievement above the minimum SASW requirement? **YES** **NO**

If YES, please state the grade/level required for Maths and give a brief **REASON** as to why this is required:

[Enter alternative grade/level requirements and reasons here.]

Inclusion of Digital Literacy (ICT)

Digital Literacy (ICT) is an **optional** framework requirement.

Is Digital Literacy a requirement in this framework? **YES** **NO**

Progression routes into and from this pathway

Progression into this pathway

This will be from a variety of routes, including:

The Higher Apprenticeship - Level 4 is specifically designed to meet the needs of candidates who have gained Level 3 qualifications including Apprenticeship (Level 3) or those with appropriate prior experience of work in the sector. Appropriate prior experience is deemed as: at least two years site experience. As a consequence the qualification is not suitable for younger (pre18+) learners. Candidates need to be of employed status and working within a supervisory capacity within the industry to meet the requirement of this pathway. The following lists the requirement:

Accepted entry requirements:

- Apprenticeship (Level 3) in Construction Building, Construction Civil Engineering or Construction Specialist
- Apprenticeship (Level 3) NVQ in Occupational Work Supervision
- NVQ in Occupational Work Supervision

The above accepted entry requirements require candidates to be on programme for a minimum of 12 months before a completion certificate can be claimed

At the end of the apprenticeship the employer will be required to sign off the apprenticeship

agreeing the following before a completion certificate will be issued.

That the following components of the framework have been met:

Transferable Skills

Knowledge qualification

Competence qualification

This agreement is to be uploaded onto ACW additional evidence requirements when claiming the completion certificate

Entry Requirements for Higher Level Apprenticeship in Construction Site Supervision (Construction) - Level 4 (CIOB Certificate & HNC) must meet the following:

A Levels and GCSE

Direct Entry into the Framework at Level 4 with only A Levels and GCSE will require employer's endorsement at point of entry ensuring that they will be working within a supervisory capacity to meet the criteria of the framework components. The minimum time on programme is 18 months before an apprenticeship completion certificate can be claimed.

Entry into the framework using the following qualifications is permitted:

City and Guilds Level 3 6720 Advanced Technical Diploma in Constructing the Built Environment (1080); City and Guilds Level 3 6720 Advanced Technical Extended Diploma in Constructing the Built Environment (720); Pearson BTEC Level 3 Extended Diploma in Construction and the Built Environment; Pearson BTEC Level 3 National Diploma in Construction and the Built Environment; Pearson BTEC Level 3 National Extended Diploma in Construction and the Built Environment

The following requirements must be met:

Entry into the Framework at Level 4 using one of the above qualifications will require employer's endorsement at point of entry ensuring that they will be working within a supervisory capacity to meet the criteria of the framework components. Proof of completion from one of the above qualifications must be loaded onto ACW when claiming completion certificates. The minimum time on programme is 12 months before an apprenticeship completion certificate can be claimed using a permitted entry qualification.

Entry into the framework using the following qualifications is permitted:

City and Guilds Level 3 6720 Advanced Technical Diploma in Constructing the Built Environment (540); Pearson BTEC Level 3 90 Credit Diploma in Construction and the Built Environment; Pearson BTEC Level 3 National Foundation Diploma in Construction and the Built Environment

The following requirements must be met:

Entry into the Framework at Level 4 using one of the above qualifications will require employer's endorsement at point of entry ensuring that they will be working within a supervisory capacity to meet the criteria of the framework components. Proof of completion from one of the above qualifications must be loaded onto ACW when claiming completion certificates. The minimum time on programme is 12 months before an apprenticeship completion certificate can be claimed using a permitted entry qualification.

Entry into the framework using the following qualifications is permitted:

City and Guilds Level 3 6720 Advanced Technical Certificate in Constructing the Built Environment (360); Pearson BTEC Level 3 Subsidiary Diploma in Construction and the Built Environment; Pearson BTEC Level 3 National Extended Certificate in Construction and the Built Environment

The following requirements must be met

Entry into the Framework at Level 4 using one of the above qualifications will require employer's endorsement at point of entry ensuring that they will be working within a supervisory capacity to meet the criteria of the framework components. Proof of completion of one of the above qualifications must be loaded onto ACW when claiming completion certificates. The minimum time on programme is 18 months before an apprenticeship completion certificate can be claimed using a permitted entry qualification

At the end of the apprenticeship the employer will be required to sign off the apprenticeship agreeing the following before a completion certificate will be issued.

That the following components of the framework have been met:

Transferable Skills
Knowledge qualification
Competence qualification

This agreement is to be uploaded onto ACW additional evidence requirements when claiming the completion certificate

Bangor University Certificate of Higher Education Construction and Civil Engineering

Criteria for Admission

Academic requirements:

Certificate of Higher Education in Construction

UCAS Tariff minimum of 56 points which will include options from below:

- A minimum of two A levels, gaining a pass in at least one relevant A2 subject at grade C or higher. Minimum grades accepted D. Examples of A Levels appropriate for the course entry are the following: Maths, Physics, Chemistry, Biology, Design Technology, Economics, Business.

- Or a BTEC Extended Diploma or equivalent with grade MPP or higher.
- Or a BTEC Diploma or above, or equivalent with grade MM or higher.
- Or a BTEC Subsidiary Diploma or above, or equivalent with grade M or higher.

Welsh and English language requirements:

- Welsh or English as first language with equivalent GCSE grade C, or
- Any degrees, diplomas or certificates eligible above should have been taught and assessed in Welsh/English, or
- For entry onto level 4: English fluency to IELTS score of 5.5 or higher (with no element less than 5.0)

At the end of the apprenticeship the employer will be required to sign off the apprenticeship agreeing the following before a completion certificate will be issued.

That the following components of the framework have been met:

Transferable Skills

Knowledge qualification

Competence qualification

This agreement is to be uploaded onto ACW additional evidence requirements when claiming the completion certificate

Progression from this pathway

There will be a wide range of opportunities that apprentices can be involved with in a structured career path, such as building, civil engineering and specialist occupations. After gaining work experience in the chosen occupational area this apprenticeship will enable progression to:

- NVQ Level 5 in Construction Site Management or
- NVQ Level 6 Diploma in Construction Contracting Operations
- NVQ Level 6 Diploma in Construction Site Management

UCAS points for this pathway:

n/a

Employee rights and responsibilities

Please note that for Apprenticeship starts from 14/10/2016 onwards ERR is no longer a **mandatory** requirement in all frameworks.

However, it may still be included in some frameworks and where it is not explicitly stated that ERR is not a requirement then confirmation of an Apprentice's ERR achievement will still remain a requirement for Apprenticeship certification purposes.

Is ERR a requirement for this framework? **YES** **NO**

Delivery and assessment

[Framework Developer to complete with relevant info]

|

Level 5

Title for this framework at level 5

Construction Management

Pathways for the framework at level 5:

Pathway 1:	Construction Management (Sustainability)
Pathway 2:	Construction Management and Technology

Level 5, Pathway 1: Construction Management (Sustainability)

Description of this pathway

Description of this pathway

Higher Apprenticeship in Construction Management (Sustainability) – Level 5

Total minimum credit value for this pathway is: 304 credits, Equating to 3,040 learning hours

64 credits for a competence qualification

240 credits for a knowledge qualification

Description of this pathway

Higher Apprenticeship in Construction Management – UWTSD HND in Construction Management - Level 5

Total minimum credit value for this pathway is: 304 credits, Equating to 3,040 learning hours

64 credits for a competence qualification

240 credits for a knowledge qualification

Description of this pathway

Higher Apprenticeship in Construction Management – UWTSD HND in Quantity Surveying – Level 5

Total minimum credit value for this pathway is: 304 credits, Equating to 3,040 learning hours

64 credits for a competence qualification 240 credits for a knowledge qualification

Entry requirements for this pathway in addition to the framework entry requirements

Entry Conditions

Candidates need to be of employed status and working within a management capacity within the industry to meet the requirement of this pathway.

All candidates must have a suitable level of physical fitness to perform aspects of the job (e.g. working out-doors in all seasonal weather conditions this could also be at height or below ground).

Job title(s)	Job role(s)
Building and Surveying Technician	Working on built environment projects using modern methods of design, developing and finalising built environment solutions and implementing health and safety for built environment personnel.
Building Services Engineering Technician	Working on built environment projects carrying out building services engineering tasks, developing and finalising building services engineering solutions and establishing and implementing health and safety for building services engineering personnel.
Civil Engineering Technician	Working on built environment projects carrying out civil engineering tasks, developing and finalising civil engineering solutions and establishing and implementing health and safety for civil engineering personnel.

Qualifications

Competence qualifications available to this pathway

C1 – Edexcel Level 5 NVQ Diploma in Construction Management (Sustainability) (QCF)

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
C1a	600/5985/0	Pearson Education Ltd	64	640	X

Knowledge qualifications available to this pathway

K1 – BTEC Level 5 HND Diploma in Construction and the Built Environment (QCF)

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K1a	500/8274/7	Pearson Education Ltd	240	2400	X

K2 – Pearson BTEC Level 5 Higher National Diploma In Construction and the Built Environment

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K2a	603/0464/9	Pearson Education Ltd	120	1200	X

K3 – UWTSD Higher National Diploma in Construction Management

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K3a	HA5CM	UWTSD	240	2400	

K4 – UWTSD Higher National Diploma in Quantity Surveying

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K4a	HA5QS	UWTSD	240	2400	X

Combined qualifications available to this pathway

N/A

Relationship between competence and knowledge qualifications

Edexcel Level 5 NVQ Diploma in Construction Management (Sustainability) Credit 64 is underpinned by:

- BTEC Level 5 HND Diploma in Construction and the Built Environment Credit 240
- BTEC Level 5 HND Diploma in Construction and the Built Environment Credit 120
- UWTSD Level 5 HND in Construction Management Credit 240
- UWTSD Level 5 HND in Quantity Surveying Credit 240

Essential Skills

An apprenticeship framework must specify as a Welsh certificate requirement the expected achievement levels of Essential Skills in Communication and the Application of Number.

Where Essential Skills qualifications are specified in an apprenticeship framework, the apprenticeship framework must specify the acceptance of a recognised proxy qualification for Communication and Application of Number.

Communication

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Communication achievement above the minimum SASW requirement? **YES** **NO**

If YES, please state the grade/level required for English and give a brief **REASON** as to why this is required:

Enter alternative grade/level requirements and reasons here.

Application of Number

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Application of Number achievement above the minimum SASW requirement? **YES** **NO**

If YES, please state the grade/level required for Maths and give a brief **REASON** as to why this is required:

Enter alternative grade/level requirements and reasons here.

Inclusion of Digital Literacy (ICT)

Digital Literacy (ICT) is an **optional** framework requirement.

Is Digital Literacy a requirement in this framework? **YES** **NO**

Progression routes into and from this pathway

Progression Routes into and from this pathway

This will be from a variety of routes, including:

The Higher Apprenticeship - Level 5 is specifically designed to meet the needs of candidates who have gained Level 4 qualifications including Apprenticeship (Level 4) or those with appropriate prior experience of work in the sector. As a consequence the qualification is not suitable for younger (pre18+) learners. Candidates need to be of employed status and working within a management capacity within the industry to meet the requirement of this pathway.

The following lists the requirement:

- • A Levels and GCSE
- Apprenticeship (Level 3) in Construction Building, Construction Civil Engineering or Construction Specialist
- BTEC National Extended Diploma, Diploma or Subsidiary Diploma in Construction and the Built Environment or other related sectors
- Apprenticeship (Level4) in Site Supervision
- NVQ Level 4 Site Supervision
- Certificate of Higher Education in Construction
- CIOB Level 3 Diploma in in Construction Site Supervisory Studies
- CIOB Level 4 Certificate or Diploma in Construction Site Management
- CIOB Higher Apprenticeship (Level 4) in Construction Site Supervision
- A Level 3 construction related technical apprenticeship
- A construction trades Level 3 Diploma and/or NVQ
- A minimum of two A levels, gaining a pass in at least one A2 subject at grade C or higher. Minimum grades accepted D.

Progression from this pathway

There will be a wide range of opportunities that apprentices can be involved with in a structured career path, such as building, civil engineering and specialist occupations. After gaining work experience in the chosen occupational area this apprenticeship will enable progression to:

- NVQ Level 6 Diploma in Construction Contracting Operations
- NVQ Level 6 Diploma in Construction Site Management

... Higher Apprenticeship in Construction Management Level 4, 5 and 6 (Wales)
..... level 5
..... Pathway 1

UCAS points for this pathway:

n/a

Employee rights and responsibilities

Please note that for Apprenticeship starts from 14/10/2016 onwards ERR is no longer a **mandatory** requirement in all frameworks.

However, it may still be included in some frameworks and where it is not explicitly stated that ERR is not a requirement then confirmation of an Apprentice's ERR achievement will still remain a requirement for Apprenticeship certification purposes.

Is ERR a requirement for this framework? **YES** **NO**

Delivery and assessment

Level 5, Pathway 2: Construction Management and Technology

Description of this pathway

Description of this pathway

Higher Level Apprenticeship Foundation Degree in Construction Management and Technology – Level 5

Total minimum credits for this pathway is 240* credits for competence and knowledge combined in an single qualification, equating to 2,400 learning hours using the University of Wales Trinity Saint David FdSc in Construction Management and Technology qualification.

40 Credits for a competence qualification.

200* Credits for a knowledge qualification.

*120 credits from previous studies (HNC Construction Management and Technology or similar 120 credit L4 qualification)

Entry requirements for this pathway in addition to the framework entry requirements

Entry Conditions

Candidates need to be of employed status and working within a management capacity within the industry to meet the requirement of this pathway.

All candidates must have a suitable level of physical fitness to perform aspects of the job (e.g. working out-doors in all seasonal weather conditions this could also be at height or below ground).

There are no additional requirements other than the general entry conditions.

Job title(s)	Job role(s)
Site Manager	Working on built environment projects assisting the Site Manager to, manage staff and budgets. Ensuring contract is delivered on time and to programme, responsible for hiring of staff, deliveries and quality management and costs.
Building Services Engineering Technician	Working on a range of building surveying roles to include traditional and modern methods of construction along with implementing Health and Safety requirements on built environment site

Qualifications

Combined qualifications available to this pathway

A1 – FdSc in Construction Management and Technology					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	
A1a	HA5CMT2020	UWTSD	240	2400	X

*120 credits from previous studies (HNC Construction Management and Technology or similar 120 credit L4 qualification)

A1a provides the competence and knowledge for A1

Relationship between competence and knowledge qualifications

A1a provides the competence and knowledge for A1

Programme Aims

The programme has the following general educational and specific aims:

- To make students effective in employment by developing practical application of theoretical knowledge that encompasses current developments in the industry;
- To produce socially responsible graduates with key technical skills related to those demanded within the industry and display exemplary ethical practice, behaviour and integrity.
- To develop the students' understanding of the business and legal issues necessary for a successful career within the current UK construction environment.
- To develop a range of transferable skills such as the ability to work independently, the ability to communicate effectively including oral and presentation skills, the ability to manage time and project development processes, and the ability to work effectively in teams.
- To stimulate confidence of students in their own intellectual abilities so that they can communicate and work effectively with the public, clients and those of associated technician, higher technician and chartered status.

Foundation Degrees equip graduates ready for the world of work and an existing workforce with relevant, valuable skills. Increasingly they represent a preferable alternative to those who want practical higher education qualifications with future career prospects. The recent development and growth of Higher Education relies on institutions developing stronger links with local business to respond to their needs and that of the general employment market. Employer engagement is partly managed through the work-based element of the foundation degree but in the main, employer engagement is managed through regular meetings that take place between the colleges and employer organisations.

The development of employability skills is embedded in to the delivery of all modules. In addition, the work based learning module provides opportunities to develop key learning outcomes linked to employability skills.

Delivery must, above all, be flexible to include the availability of lecturer material via 'Moodle' or similar platforms. Flexible learning methods are key to the success of this programme. Most of the students programmes work on a full time basis, many employed within the industry studying as part of their continual professional development (CPD).

The FdSc in Construction Management and Technology will allow continued smooth progression to career paths in the built environment. It promotes inclusivity, allowing recruits from a wide demographic of the local community the opportunity of study they might not have, without the flexibility and regional availability of its delivery.

The programme provides the knowledge, understanding and critical analytical skills to inform current and future professionals and draws on a wide range of intellectual resources, theoretical perspectives and academic disciplines to illuminate understanding of the built environment across a diverse range of fields of study. In addition to these core elements, the programme encourages student research and discussion in relation to current issues of built environment management, ethics, legislation and environmental change.

General Assessment Strategy

Each module is individually assessed. The programme uses a range of assessment methods so that all students are given opportunities to demonstrate their strengths and in order to promote their key skills. The programme of assessment aims to measure the skill and competence of the individual student by means of a structured and integrated approach to a defined coursework and examination schedule. The assessment strategy has been devised to reflect the diverse nature of the module content with a balance between modules which are assessed through assignments, coursework and others which are examined at the end of the session.

40 Credit Workbased Learning Module Content and Assessment

The FdSc in Construction Management and Technology includes a compulsory work-based learning activity in the 40 credit level 5 work-based module and assessments are linked to this and must comply with the requirements set out in Chapter 10 of the Academic Quality Handbook. The college has strong links with industry and consulted with a wide range of employers during the preparation of this document. The work experience module is managed in accordance with the Work Experience Handbook. Upon the successful completion of this module, the student should be able to:

- Evaluate and critically understand the complexities of a workplace problem and documentation needs;

- apply independent research techniques and information to appraise a work related/organisational problem;
- interpret relevant legal and other considerations relating to the work place (including, where relevant, Health and Safety, Environmental protection and sustainability and risk analysis/assessment);
- assess the impact of any changes proposed within the workplace;
- communicate effectively with workplace team members in interpreting identified problems.

Students will investigate and analyse an agreed area of work-related activity relevant to their place of work. The focus and limits for each student's investigation will be individually negotiated. The module is not limited to specific content or investigatory techniques. A series of tutorials during the academic year will provide general support for the development of the student's proposal and structure of his/her project and documentation. Tutorials allow a more interactive learning experience for the student where they will be encouraged to engage and discuss areas that are pertinent to problem and projects in the workplace. Students, on an individual basis, will need to agree a focused area of work-related activity. A clear outline of and agreed method of study will be planned with the lecturer and a workplace representative.

Essential Skills

An apprenticeship framework must specify as a Welsh certificate requirement the expected achievement levels of Essential Skills in Communication and the Application of Number.

Where Essential Skills qualifications are specified in an apprenticeship framework, the apprenticeship framework must specify the acceptance of a recognised proxy qualification for Communication and Application of Number.

Communication

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Communication achievement above the minimum SASW requirement? **YES** **NO**

If YES, please state the grade/level required for English and give a brief **REASON** as to why this is required:

Enter alternative grade/level requirements and reasons here.

Application of Number

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Application of Number achievement above the minimum SASW requirement? **YES** **NO**

If YES, please state the grade/level required for Maths and give a brief **REASON** as to why this is required:

Enter alternative grade/level requirements and reasons here.

Inclusion of Digital Literacy (ICT)

Digital Literacy (ICT) is an **optional** framework requirement.

Is Digital Literacy a requirement in this framework? **YES** **NO**

Progression routes into and from this pathway

Progression Routes into and from this pathway

Entry will be granted to applicants who demonstrate the academic ability and potential to benefit from the apprenticeship programme. Applications from students with relevant industrial experience will be considered on their own merit at interview and based on their experience and other qualifications they may have gained.

This will be from a variety of routes, including:

- Direct entry onto Higher (Level 5) with University of Wales Trinity Saint David FdSc in Construction Management knowledge qualification within framework is specifically designed to meet the needs of candidates who have gained a 120 credit L4 construction related (Subject to RPL process) Higher National Certificate qualification.
- Individuals with appropriate prior experience of work in the sectors identified and are able to attain 120 construction related credits at L4 through Accreditation of Prior (Experiential) Learning (AP(E)L) or other certified Recognition of Prior Learning (RPL).
- Entry into the framework at Level 5 will also require employer's endorsement at point of entry ensuring that they will be working within a managerial capacity to meet to the criteria of framework components.

Progression from this pathway

There will be a wide range of opportunities that apprentices can be involved with in a structured career path, such as building, civil engineering and specialist occupations. After gaining work experience in the chosen occupational area this apprenticeship will enable progression to:

- BSc (Hons) Construction Management and Technology

Employee rights and responsibilities

Please note that for Apprenticeship starts from 14/10/2016 onwards ERR is no longer a **mandatory** requirement in all frameworks.

However, it may still be included in some frameworks and where it is not explicitly stated that ERR is not a requirement then confirmation of an Apprentice's ERR achievement will still remain a requirement for Apprenticeship certification purposes.

Is ERR a requirement for this framework? **YES** **NO**

Level 6

6

Construction Site Management

Pathways for the framework at level 6:

Pathway 1: Construction Site Management

Level 6, Pathway 1: Construction Site Management

Description of this pathway

Description of this pathway
Construction Site Management

Total minimum credit value for this pathway is: 247 credits

115 credits for competence

120 credits for knowledge

12 credits for Essential Skills

Entry requirements for this pathway in addition to the framework entry requirements

Candidates need to be of employed status and working within a management capacity within the industry to meet the requirement of this pathway.

Job title(s)	Job role(s)
Site Management	Working on a construction site, managing the development and maintaining good occupational working relations, allocation of work and performance. Health and Safety in the workplace, monitoring projects activities and controlling progress.

Qualifications

Competence qualifications available to this pathway

C1 – Level 6 NVQ Diploma in Construction Site Management

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
C1a	600/3992/9	Pearson Education	115	447	X
C1b	600/3652/7	Cskills Awards	115	4471	

Knowledge qualifications available to this pathway

K1 – Pearson BTEC Level 5 Higher National Diploma In Construction and the Built Environment

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K1a	603/0464/9	Pearson Education Ltd	120	1200	X

Combined qualifications available to this pathway

N/A

Relationship between competence and knowledge qualifications

Level 6 NVQ Diploma in Construction Site Management credit 115 GLH 447 is underpinned by:

BTEC Level 5 HND Diploma in Construction and the Built Environment Credit 120

Essential Skills

An apprenticeship framework must specify as a Welsh certificate requirement the expected achievement levels of Essential Skills in Communication and the Application of Number.

Where Essential Skills qualifications are specified in an apprenticeship framework, the apprenticeship framework must specify the acceptance of a recognised proxy qualification for Communication and Application of Number.

Communication

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Communication achievement above the minimum SASW requirement? **YES** **NO**

If YES, please state the grade/level required for English and give a brief **REASON** as to why this is required:

Enter alternative grade/level requirements and reasons here.

Application of Number

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Application of Number achievement above the minimum SASW requirement? **YES** **NO**

If YES, please state the grade/level required for Maths and give a brief **REASON** as to why this is required:

Enter alternative grade/level requirements and reasons here.

Inclusion of Digital Literacy (ICT)

Digital Literacy (ICT) is an **optional** framework requirement.

Is Digital Literacy a requirement in this framework? **YES** **NO**

Progression routes into and from this pathway

Candidates need to be of employed status and working within a management capacity within the industry to meet the requirement of this pathway. This will be from a variety of routes including:

Apprenticeship (Level 4) in Construction Management or Site Supervision

Apprenticeship (Level 5) in Construction Management

Progression from this pathway

There are opportunities to undertake a degree in Construction Management or Civil Engineering which would lead to Project Manager, Contracts Manager and ultimately Construction Director.

UCAS points for this pathway:

n/a

Employee rights and responsibilities

Please note that for Apprenticeship starts from 14/10/2016 onwards ERR is no longer a **mandatory** requirement in all frameworks.

However, it may still be included in some frameworks and where it is not explicitly stated that ERR is not a requirement then confirmation of an Apprentice's ERR achievement will still remain a requirement for Apprenticeship certification purposes.

Is ERR a requirement for this framework? **YES** **NO**

Delivery and assessment

Framework Developer to complete with relevant info

The remaining sections apply to all levels and pathways within this framework.

How equality and diversity will be met

How equality and diversity will be met

CITB: responsibility as an industry leader

We live in a diverse society that is multi-cultural and multi-lingual, where everyone is different and has something different to bring to society and the workplace. Construction is an industry which requires a variety of different skills and abilities and it is important that people from different backgrounds, life experiences and abilities are employed within the sector to enable us to achieve the high skill levels needed to be world leaders in the industry. CITB is working to attract and support the best qualified people to work in the sector.

As a partner organisation of the Sector Skills Council for the construction industry and an Industry Training Board we encourage construction companies to employ the best qualified person for the job regardless of age, disability, gender-reassignment, marriage or civil partnership, pregnancy and maternity, race, religion and belief, sex (gender), sexual orientation or socio-economic background. We will also challenge out-of-date practices and promote equality and the business case for diversity to construction companies by working with our partners and government.

In Wales, CITB will meet the requirements of the Welsh Language Act and provide services explained in the CITB Welsh Language Scheme.

Good Practice for Learning Providers

Equality and diversity includes social and educational inclusion and tackles equality of opportunity. This goes further than providing 'equal access' to participation. In practice this means all learning providers should:

- Actively promote equality and diversity, tackle bullying and discrimination and narrow any gaps in achievement between different groups of learners
- Actively promote British values
- Make sure that safeguarding arrangements to protect young people and learners, meet all statutory and other government requirements, promote their welfare and prevent radicalisation and extremism.

To meet the demands set by Government and inspection bodies CITB expects that its providers consider the following questions about their ethos and provision for equality and diversity:

- Do we establish a provider ethos that is inclusive?
- Do we take into account and value the diversity of learners' backgrounds, and act appropriately on this information?

- Do we offer equal access to the programmes and challenge stereotypes in learners' attitudes, choices, expectations and achievements?
- Do we develop tolerant attitudes and ensure that all learners and staff are free from harassment?
- Do we promote the prevention and elimination of oppressive behaviour, including bullying, sexism, racism, ageism and homophobia?
- Are our policies and procedures effective in dealing with specific instances of discrimination or oppressive behaviour?
- Do we take reasonable steps to ensure that current and prospective learners with disabilities do not suffer less favourable treatment in provider or on employers' premises?
- Do we have a well-understood equality scheme and action plan that promotes equal opportunities and human rights? Does our policy meet statutory requirements?
- Do we have an action plan that ensures delivery of the policy?
- Do we provide appropriate equality training for staff and employers where appropriate?
- Do we keep employers aware of the provider's requirements regarding equality and diversity?
- Do we ensure that employers are fully aware of their responsibilities for equality and diversity?
- Do we monitor and effectively address any related issues or complaints that arise?

External 'Fairness, Respect and Inclusion' Leadership Strategy

Aim

To lead the construction and built environment sector in improving its performance around Fairness, Respect and Inclusion so that the sector can actively promote equality of opportunity for everyone and attract and retain the quality people it needs from a diversity of backgrounds.

Objectives

- To challenge the sector as to how it can embrace fairness, respect and inclusion.
- To lead the fairness respect and inclusion agenda in the sector.
- To make the business case that fairness, respect and inclusion is good for business in terms of improving performance and saving costs.
- To help and support the sector in meeting the current and emerging legislation around Equality and Diversity.
- To identify, initiate and promote best practice across the sector.
- To provide accurate and authoritative LMI for the sector on equality and diversity and the protected characteristics.
- To ensure that fairness, respect and inclusion are integrated into the CITB IAG strategy, action plans, policies and procedures.
- To ensure that fairness respect and inclusion are integrated into the CITB-CITB Qualifications strategy, action plans, policies and procedures.
- To work in partnership with external groups.
- To develop products and services that will support the Fairness, Respect and Inclusion

- To launch an equality standard for the sector.

Welsh language, Estyn requirement (Common Inspection Framework 2.1.3)

To meet the demands set by Government and inspection bodies CITB expects that its providers consider the following questions about their ethos and provision for the Welsh language and Welsh dimension:

- Does the quality of our provision for Welsh language development enable learners to achieve good standards, taking account of the linguistic background and context of the provider?
- Does the provider encourage and support learners to maintain and to develop further their existing Welsh language skills?
- Do we encourage learners to take up and to achieve qualifications in Welsh?
- Do we contribute to the learners' knowledge and understanding of the cultural, economic, environmental, historical and linguistic characteristics of Wales?
- How well do we maintain and further develop the existing Welsh language skills of learners? |

On and off the job training

Summary of on- and off-the-job training

The total amount of on and off the job training for each pathway.

Higher Apprenticeship (Level 4)

Construction Site Supervision 890 training hours using HNC

Construction Site Supervision 510 training hours using CIOB Certificate

Construction Site Supervision 2640 training hours using Wrexham Glyndwr University HNC Building Studies

Construction Site Supervision 2640 training hours using Wrexham Glyndwr University HNC Civil Engineering

Construction Site Supervision 1590 training hours using the – Pearson BTEC Level 4 Higher National Certificate in Construction and the Built Environment

Construction Site Supervision 1590 training hours using the Bangor University Certificate of Higher Education Construction and Civil Engineering

Construction Site Supervision 970 training hours using the – Pearson BTEC Level 4 Higher National Certificate in Construction

Construction Site Supervision 1200 training hours using UWTSD HNC in Construction Management and Technology L4.

Higher Apprenticeship (Level 5)

Construction Management 3040 training hours using BTEC Level 5 HND Diploma in Construction and the Built Environment

Construction Management 1840 training hours using Pearson BTEC Level 5 Higher National Diploma In Construction and the Built Environment

Construction Management 3040 training hours using UWTSD Higher National Diploma in Construction Management

Construction Management 3040 training hours using UWTSD Higher National Diploma in Quantity Surveying

Construction Management 1200 training hours using UWTSD Foundation Degree in Construction Management and Technology L5

Higher Apprenticeship (Level 6)

Pathway 1

Construction Site Management 1647 training hours using Pearson BTEC Level 5 Higher National Diploma In Construction and the Built Environment]

Off-the-job training

Off-the-job training is defined as time for learning activities away from normal work duties.

Higher Apprenticeship (Level 4)

BTEC Level 4 HNC Diploma in Construction and the Built Environment 500 training hours

CIOB Level 4 Certificate in Site Management 160 training hours

Wrexham Glyndwr University HNC Building Studies 2250 training hours

Wrexham Glyndwr University HNC Civil Engineering 2250 training hours

Pearson BTEC Level 4 Higher National Certificate in Construction and the Built Environment 1200 training hours

Bangor University Certificate of Higher Education Construction and Civil Engineering 1200 training hours

UWTSD HNC in Construction Management and Technology 1200 training hours

Higher Apprenticeship (Level 5)

BTEC Level 5 HND Diploma in Construction and the Built Environment 2400 training hours

Pearson BTEC Level 5 Higher National Diploma In Construction and the Built Environment 1200 training hours

UWTSD Level 5 Higher National Diploma in Construction Management 2400 training hours

UWTSD Level 5 Higher National Diploma in Quantity Surveying 2400 training hours

Higher Apprenticeship (Level 6)

Pathway 1 Pearson BTEC Level 5 Higher National Diploma In Construction and the Built Environment 1200 training hours.

Pearson BTEC Level 4 Higher National Certificate in Construction 580 training hours

Pathway 2

UWTSD FdSc in Construction Management and Technology 1200 training hours

How this requirement will be met

How this will be met

Training hours delivered under an apprenticeship agreement may vary depending on the previous experience and attainment of the apprentice. The amount of off-the-job training required to complete the apprenticeship under the apprenticeship agreement may then be reduced accordingly, provided the total number of off-the-job hours for this framework can be verified for apprenticeship certification.

Previous attainment

Where a learner enters an apprenticeship agreement having previously attained parts or all of the relevant qualifications, this prior learning needs to be recognised using either Total Qualification Time (TQT) achievements within the Regulated Qualification Framework (RQF); or through recording of exemptions for certificated learning outside of the RQF, for example Principal Learning qualifications.

Off the job training needs to:

- Be planned, reviewed and evaluated jointly between the apprentice and a tutor, teacher, mentor or manager
- Allow access as and when required by the apprentice either to a tutor, teacher, mentor or manager
- Be delivered during contracted working hours be delivered through one or more of the following methods: individual and group teaching, e-learning, distance learning, coaching; mentoring, feedback and assessment; collaborative/networked learning with peers, guided study and induction.

Off-the-job training must be formally recorded, either in a diary, workbook, portfolio, or be verified by attendance records. This evidence needs to be checked and signed by the assessor and the employer.

Higher Apprenticeship (Level 4)

500 training hours- HNC spent in a training environment learning the theory and aspects around Construction and the Built Environment

160 training hours – in a training environment learning the theory aspects around the CIOB Site Management Certificate

2250 training hours - in a training environment on day release learning theory and aspects around HNC Building Studies

2250 training hours - in a training environment on day release learning theory and aspects around HNC Civil Engineering

1200 training hours –in a training environment on day or block release learning theory aspects around the BTEC Level 4 Higher National Certificate in Construction and the Built Environment

1200 training hours –in a training environment on day or block release learning theory and practical aspects around the Bangor University Certificate of Higher Education Construction

1200 training hours –in a training environment on day or block release learning theory and practical aspects around the Bangor University Certificate of Higher Education Civil Engineering Route.

580 training hours in a training environment on day or block release learning theory and practical aspects around the Pearson BTEC Level 4 Higher National Certificate in Construction

360 training hours in a training environment on day release learning the theory aspects around the UWTSD HNC in Construction Management and Technology

Higher Apprenticeship (Level 5)

1200 training hours – spent in a training environment learning the theory and aspects around BTEC Level 5 Higher National Diploma In Construction and the Built Environment.

2400 training hours –spent in a training environment on day or block release learning theory and practical aspects around the UWTSD Level 5 Higher National Diploma in Construction Management

2400 training hours –spent in a training environment on day or block release learning theory and practical aspects around the UWTSD Level 5 Higher National Diploma in Quantity Surveying.

360 training hours in a training environment on day release learning the theory aspects around the UWTSD FdSc in Construction Management and Technology

Evidence of off the job training hours

Higher Apprenticeship (Level 6)

1200 training hours- spent in a training environment learning the theory and aspects around BTEC Level 5 Higher National Diploma In Construction and the Built Environment

1200 training hours. Evidence of off the job training hours

Higher Apprenticeship (Level 4, 5, 6)

Level 4

Level 4 CIOB Certificate in Site Management

Level 4 HNC Building Studies issued by Wrexham Glyndwr University

Level 4 HNC Civil Engineering issued by Wrexham Glyndwr University

BTEC Level 4 Higher National Certificate in Construction and the Built Environment

UWTSD Level 4 HNC in Construction Management and Technology

Level 5

BTEC Level 5 Higher National Diploma In Construction and the Built Environment.

UWTSD Level 5 Higher National Diploma in Construction Management

UWTSD Level 5 Higher National Diploma in Quantity Surveying

UWTSD Level 5 FdSc in Construction Management and Technology

Level 6

BTEC Level 5 Higher National Diploma In Construction and the Built Environment.

All Levels Level 2 Certificates for Essential Skills Application of Number and Communication or proxy qualifications identified in this framework

On-the-job training

On-the-job training

On the job training is defined as skills, knowledge and competence gained within the normal working hours. For this framework, the amount of on-the-job is as follows

Higher Apprenticeship (Level 4)

Level 4 NVQ Diploma in Construction Site Supervision 390 hours

Higher Apprenticeship (Level 5)

Level 5 NVQ Diploma in Construction Management 640 hours

Level 5 FdSc in Construction Management and Technology 400 hours

Higher Apprenticeship (Level 6)

Level 6 NVQ Diploma in Construction Site Management 447 hours

How this requirement will be met

An Apprentice will need to complete the following on the Job GLH per year as applicable to the apprenticeship pathway.

Evidence for on-the-job GLH will include

How the on-the-job requirement will be met

These hours may vary depending on previous experience and attainment of the apprentice. Where a learner enters an apprenticeship agreement, having previously attained or acquired the appropriate competencies or knowledge, this prior learning needs to be recognised and documented using the relevant Total Qualification Time (TQT), RQF exemption or recognition of prior learning (RPL) procedures (as off-the-job). The amount of on-the-job training required to complete the apprenticeship under the apprenticeship agreement may then be reduced accordingly, provided the total number of on-the-job hours for this framework can be verified for apprenticeship certification.

Apprentices who commence training under a new apprenticeship agreement with a new employer may bring a range of prior experience with them. When an apprentice can claim 50 hours or more towards the on-the-job framework total through prior learning acquired from previous full-time education, employment or other vocational programmes, then the apprentice's learning programme should include 'customisation'. Training providers are encouraged to identify additional on-the-job training programmes that customise the learning

to the new workplace. Customisation programmes may include selecting appropriate additional unit(s) from RQF qualifications, or relevant units recognised as Quality Assured Lifelong Learning [QALL] through a CQFW recognised body, or follow Essential Skills at a level higher than that specified in the framework, include one or more Wider Key Skills or other competency-based qualifications/units relevant to the workplace.

Job roles within construction require a thorough level of technical competence and knowledge, which will be undertaken through work-based training, practice and experience.

How this will be evidenced:

On-the-job learning must be formally recorded, either in a diary, workbook, portfolio or be verified by attendance records. This evidence needs to be checked and signed by the work based recorder, employer or training provider and quality assured by the Awarding Organisation (assessor/verifier). These records of hours may need to be submitted to the Certifying Authority when applying for an apprenticeship completion certificate.

Additional Guidance

All apprentices are required to generate evidence in the workplace to complete the competence qualification over the period of the apprenticeship; this is achieved by the following.

- In the workplace, candidates bring evidence of completed tasks which are supported by a work based recorder; this evidence is discussed and agreed by the assessor (as a contribution to demonstrating competence in the workplace).
- The generation of a work-based portfolio, either paper-based or electronic, can be accepted by the Awarding Organisations. When the apprentice has gathered all of the work-based evidence that meets the requirements the assessor will sign off the competence qualification.
- The use of an onsite diary and site records generated by the candidate is acceptable for providing evidence of workplace tasks.
- Evidence is generated throughout the apprenticeship period, allowing the candidate to have mentoring and assessment when tasks have been completed. Only a variety of work will generate enough evidence to support the qualification. Evidence for on the Job Training at Higher Apprenticeship (Level 4, 5, 6)
- NVQ Diploma issued by an Awarding Organisation for the given occupational area

A completion certificate will only be issued by Apprenticeship Certification Wales (ACW) when all component parts of the framework have been achieved and the required minimum time has been met and certificates from the Awarding Organisation have been issued and checked by the Certification Body (Sector Skills Council).

Wider key skills assessment and recognition

While Wider Key Skills are not a **mandatory** part of the framework, training providers are encouraged to provide apprentices the opportunity to achieve them.

There is no requirement for the Wider Key Skill Improving own Learning and Performance.

The Apprenticeship programme through the knowledge and training enables the apprentice to learn and improve performance by completing set tasks in a structured training environment. This helps to develop, improve the learning performance of the apprentice so they have the ability to carry out work in the workplace.

There is no requirement for the Wider Key Skill Working with Others.

Team working are a requirement in the mandatory units (based on National Occupational Standards VR01, VR02, VR03 VR209, VR210, and VR211) of the competence and knowledge qualifications.

The Apprenticeship programme through the knowledge and training enables the apprentice to work with others by completing set tasks in a structured training environment. This helps the apprentice so they have the ability to work with others in the workplace

There is no requirement for the Wider Key Skill in Problem Solving
Within the knowledge qualifications as part of training there is problem solving as part of the occupational area.

The Apprenticeship programme through the knowledge and training enables the apprentice to carry out problem solving by completing set tasks in a structured training environment. This helps to develop the apprentice so they have the ability to problem solve in the workplace

Additional Employer Requirements

There are no additional Employer Requirements for this framework

apprenticeship FRAMEWORK

For more information visit-
www.acwcerts.co.uk/framework_library