

# Welcome to the T Level Core Component Webinar

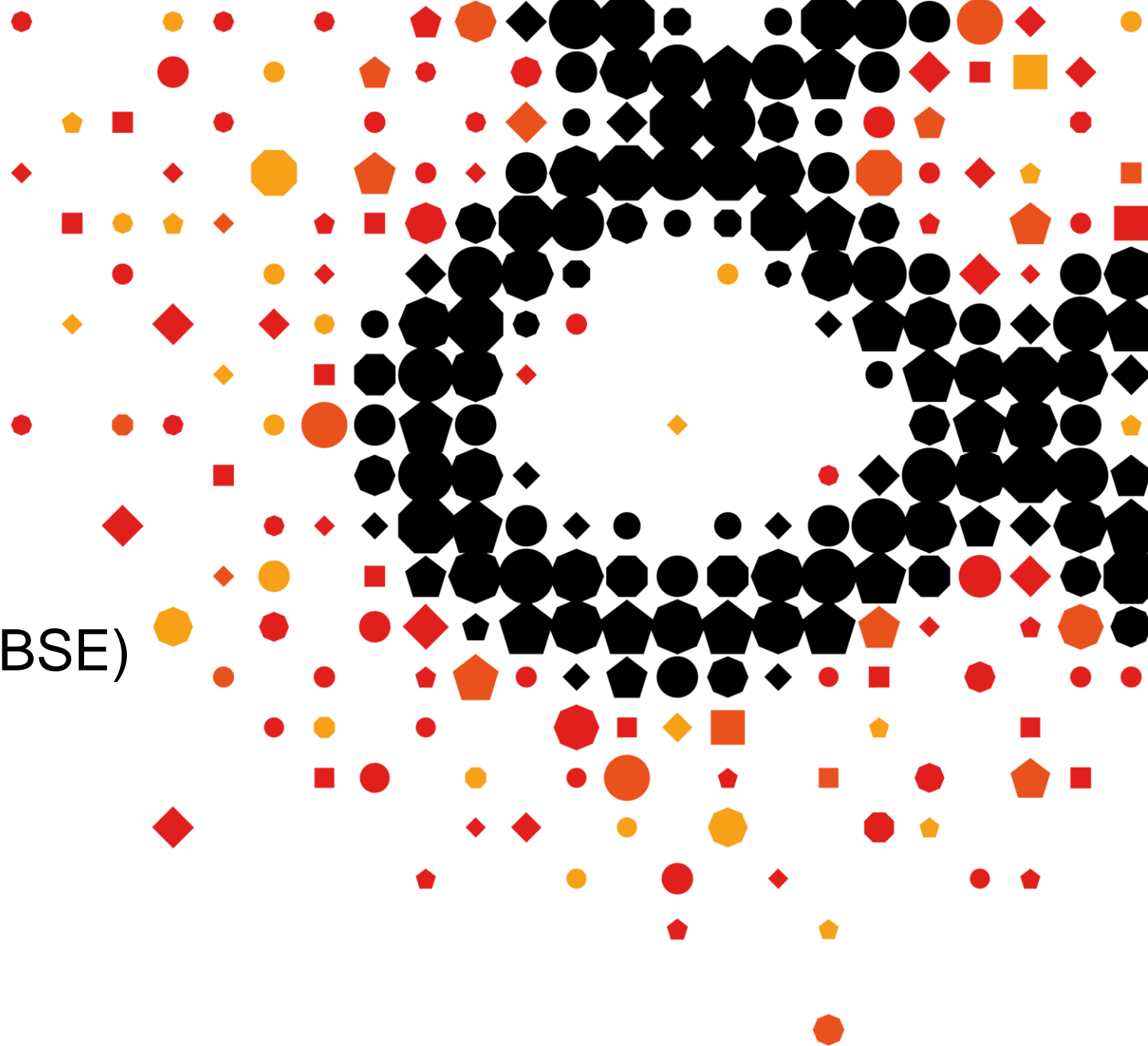
## Construction: On-site and Building Service Engineering (BSE)

The webinar will begin shortly



# T level Core Component Webinar

Construction: On-site and  
Building Services Engineering (BSE)



# Using the webinar platform



**Send any questions in the question area throughout the webinar**



**All attendees will be set to mute**



**Webinar resources will be shared on our website shortly after**



## Agenda

1	Introduction to the webinar and panel
2	Qualification handbook structure
3	Structure of core component
4	Assessment and Employer Set Project
5	Grading rules
6	Education Training Foundation (ETF)
7	Hodder Education Resources
8	Q&A



- How the core component is structured
- Contact details for technical advisors
- How to navigate the website for information
- Guidance and support from ETF and Hodder Education



- Progression
- Industry placements
- OS content



# Construction & BSE T Level Team



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# Guest presenters

Today we have the pleasure of presenting to you our guest presenters.

We have from Education and Training Foundation-

- Sam Dilliway-Davies
- Lauren Landi



And from Hodder Education we have-

- Thomas Stotter



# Structure and assessment of Core Component

# Qualification handbook & Core component- Onsite

300

## Onsite construction core

Level:	3
GLH:	400
Assessment method:	Knowledge exam Employer set project

### What is the component about?

This component focuses on the learner's knowledge and understanding of contexts, concepts, theories and principles relevant to onsite construction. The component is designed to raise learners' awareness of the industries and develop knowledge and understanding of:

- Fundamental Health & Safety practices associated with carrying out construction work
- Scientific principles related to construction activities
- The construction industry and careers within it
- Principles of sustainability and design, relevant to construction projects
- Information, data and principles of measurements
- Tools, equipment and materials used in construction work
- Legislation, regulations and approved standards that apply to the construction industry

Learners may prepare by asking themselves questions such as:

- How are teams of different specialists co-ordinated to work together on construction projects?
- What are different career pathways and destinations within the construction industry?
- What factors influence whether construction projects are profitable?
- What kind of tasks do Onsite trades perform?
- What tools and equipment Onsite trades use as part of their role?

### Underpinning knowledge outcomes

On completion of this Onsite Core, learners will understand:

1. Health and safety in construction
2. Construction science principles
3. Construction design principles
4. Construction & the built environment industry
5. Construction sustainability principles
6. Construction measurement principles
7. Building technology principles
8. Construction information and data principles
9. Relationship management in construction
10. Digital technology in construction
11. Construction commercial/business principles
12. Onsite systems
13. Maintenance principles
14. Tools, equipment and materials

Completion of the onsite construction core will give learners the opportunity to develop their maths, English and digital skills.



# Qualification handbook & Core component- BSE

## 350 Building Services Engineering Core

Level:	3
GLH:	520
Assessment method:	Two Knowledge tests Employer-set project

### What is the component about?

This component focuses on the learner's knowledge and understanding of contexts, concepts, theories and principles relevant to Onsite construction and Building Services Engineering (BSE). The component is designed to raise learners' awareness of the industries and develop knowledge and understanding of:

- Fundamental Health and Safety practices associated with carrying out construction and BSE work
- Scientific principles related to construction activities
- The construction industry and careers within it
- Principles of sustainability and design, relevant to construction projects
- Information, data and principles of measurements
- Tools, equipment and materials used in BSE work
- Legislation, regulations and approved standards that apply to BSE systems.

Learners may prepare by asking themselves questions such as:

- How are teams of different specialists co-ordinated to work together on construction projects?
- What the different career pathways and destinations are within the construction industry?
- What factors influence whether construction projects are profitable?
- What kind of tasks does a building service engineers perform?
- What systems do Building Service Engineers work on?
- What tools and equipment building service engineers use as part of their role?

### Underpinning knowledge outcomes

On completion of the BSE Core, learners will understand

1. Health and safety in construction
2. Construction science principles
3. Construction design principles
4. Construction and the built environment industry
5. Construction sustainability principles
6. Construction measurement principles
7. Building technology principles
8. Construction information and data principles
9. Relationship management in construction
10. Digital technology in construction
11. Construction commercial/business principles
12. Building Services Engineering (BSE) systems
13. Maintenance principles
14. Tools, equipment and materials

Completion of the Building Services Engineering core will give learners the opportunity to develop their maths, English and digital skills. Details are presented in the skills section of each criterion.

# Qualification handbook & Core component

## Onsite core content

Learning Outcome → 1. Health and safety

### Criteria

This section of the specification outlines the subject or topic that needs to be delivered and assessed. Criteria are often supported by 'range'

1.1 Construction **legislation and regulations.**

#### Range:

**Legislation and regulations** - Health and Safety at Work Act (HASAWA), Reporting Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR), Control of Substances Hazardous to Health (COSHH), Construction (Design and Management) (CDM) regulations, Provision and Use of Work Equipment Regulations (PUWER), manual handling operations regulations, Personal Protective Equipment (PPE) at work regulations, work at height regulations, Construction (Design and Management) Regulations 2007, control of noise at work regulation, environmental regulations, waste management.

provides the detail of the information required to be delivered as part of that topic. For example, with BSE systems as the topic, the range would list the systems that would need to be covered in delivery and assessment

What do learners need to learn? The primary purpose of these sections is to support the delivery of the content in the criteria.  
These sections provide context in relation to the depth and breadth to which a subject or topic needs to be taught.

#### What do learners need to learn?

The role of legislation and regulations in the construction industry, including the role of the Health and Safety Executive (HSE). How current legislation impacts employer, employee, and construction projects within a domestic and commercial setting.

The bodies responsible for maintaining and updating legislation and regulations. How to obtain legislation and regulations and the importance of ensuring the information is current.

To include regulations relating to provisions of welfare facilities during construction work (toilets, washing facilities, drinking water, heating, changing rooms and lockers, rest facilities etc) and access to information related to welfare responsibilities onsite.

The implications of not adhering to the legislation on the public, client, business and employers and employees including enforcements, penalties, and imprisonment.

The difference between statutory and non-statutory legislation, where each legislation is applicable in terms of construction activities.

#### Skills

CSB  
EC5

Relate to Core Skills and General competencies in English, Mathematics and Digital Skills

# Assessment

## Construction On-Site

### Technical Qualification Scheme of Assessment overview

**Core Component – Learners must complete all assessment components**

Assessment component	Method	Duration	Marks	Weighting	Marking	Grading
Exam paper 1	Externally set exam	2 hours	90	35%	Externally marked	This component will be awarded on the grade scale A* - E
Exam paper 2	Externally set exam	2 hours	90	35%	Externally marked	
Employer set project	Externally set project	17 hours	100	30%	Externally marked	

## BSE

**Core Component – Learners must complete all assessment components**

Assessment component	Method	Duration	Marks	Weighting	Marking	Grading
Exam paper 1	Externally set exam	2.5 hours	110	35%	Externally marked	This component will be awarded on the grade scale A* - E
Exam paper 2	Externally set exam	2.5 hours	110	35%	Externally marked	
Employer-set project	Externally set project	17 hours	100	30%	Externally marked	

# Assessment

Learners can retake the exams and they can retake to improve their grade. Any retake must be completed within two years after the completion of the learner's T level programme.

## Availability of assessments

The table below sets out the scheduled assessment windows annually for the T Level in Construction: Onsite. Exact key dates for assessment that are externally marked (core exams and the employer-set project) will be communicated to approved providers annually through the key date schedule.

Component	Series	Exam type	Calendar Month/s	Assessment window/set date
Core exam 1	First series	Written exam	May/June 2022	Set date
	*Retake series	Written exam	November 2022	Set date
Core exam 2	First series	Written exam	May/June 2022	Set date
	*Retake series	Written exam	November 2022	Set date
Employer-set project	First series	Project	February – April 2022	Set dates within assessment window
	*Retake series	Project	October 2022	Set dates within assessment window



# Employer Set Project

## Assessment overview:

The employer-set project is an assessment made up of several tasks that will take place within controlled conditions, assessing the knowledge and skills learned as part of the core element of the T Level.

Each project will be developed together with employers in the industry to reflect realistic types of developments, activities and challenges. The project is made up of a number of tasks which all relate to the same employer-set project brief and tender specification

- Task 1.1 Research
- Task 1.2 Report
- Task 1.3 Project plan
- Task 1.4 Presentation
- Task 2.1 Collaborative problem-solving
- Task 2.2 Evaluation

The project only draws on the content from the common core knowledge that sits across all specialisms for onsite (specific knowledge and skills for each specialism will be assessed in the practical assignments)

The project is linked to the core skills.

- Problem solving
- Research
- Communication
- Working collaboratively with others



# Employer Set Project

## Scheduling of the Employer-set project assessments

The employer-set project assessment window will occur from March to May annually. Specific dates will be released annually through the key date schedule for the following academic year

Task	Scheduling	Task Duration
1.1	City & Guilds sets the assessment window for the centre to timetable	3 hours
1.2	City & Guilds sets the assessment window for the centre to timetable	6 hours
1.3	City & Guilds sets the assessment window for the centre to timetable	3 hours
1.4	City & Guilds sets the assessment window for the centre to timetable	2.5 hours
2.1	City & Guilds sets the assessment window for the centre to timetable	1.5 hours
2.2	City & Guilds sets the assessment window for the centre to timetable	1 hour



# Grading Rules

## Awarding the T Level programme grade

To achieve a T Level in Construction: Onsite a learner must complete all elements of the T Level framework set by the Institute for Apprenticeships and Technical Education (IfATE). This includes the technical qualification, English and maths at Level 2, industry placement and other requirements set, such as a licence to practice qualification.

In meeting the above requirements, the learner will be eligible to be awarded an overall qualification grade for the T Level in Building Services Engineering (BSE). The calculation of the qualification grade will be based on performance in the core component and occupational specialism, as set out below.

Calculation of the T Level Qualification Grade				
Core component grade	Occupational specialism Grade			
		Distinction	Merit	Pass
	A*	Distinction*	Distinction	Distinction
	A	Distinction	Distinction	Merit
	B	Distinction	Merit	Merit
	C	Merit	Merit	Pass
	D	Merit	Pass	Pass
	E	Pass	Pass	Pass



# ETF- Education Training Foundation





# T LEVEL PROFESSIONAL DEVELOPMENT

**SAM DILLWAY-DAVIES**  
**NATIONAL HEAD OF PERFORMANCE MANAGEMENT**

9 DECEMBER 2020

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# T LEVEL PROFESSIONAL DEVELOPMENT

## Overview

The T Level Professional Development offer is a suite of high-quality professional development to support the teachers, trainers, leaders and support staff who are delivering T Levels from 2020 and beyond.

# T LEVEL PROFESSIONAL DEVELOPMENT PLATFORM

[pdp.etfoundation.co.uk/](https://pdp.etfoundation.co.uk/)

= The gateway to the TLPD offer and provides the opportunity to undertake a Training Needs Analysis...

- Identifies specific gaps and areas for development in your skills and knowledge around T Levels.
- Generates a personalised training package, tailored specifically to job roles, levels of experience and knowledge.

As well as the Training Needs Analysis, the TLPD offer includes:

- **Understanding T Levels:** develop your knowledge of T Levels to prepare for delivery and provide learners with high quality advice and guidance.
- **T Level Role and Route Specific Training:** personalised CPD journeys created from a range of courses including the New Teacher Programme, Teaching T Levels, and the Route and T Level courses.
- **Professional Development for Leaders:** helping all staff in leadership roles to shape the strategic direction of their organisation.
- **Industry Insights:** apply for workplace shadowing and placement opportunities and attend industry workshops to ensure current industry practice is reflected in T Level teaching.
- **Networks:** Interact, collaborate and share effective practice with colleagues across the sector.
- **T Level Resource Improvement Projects (TRIPs):** collaborate on action research projects with staff from other T Level providers to improve teaching and outcomes for learners.

**Sign up via the ETF website and be the first to hear about new CPD and important updates.**

**[etfoundation.co.uk/tlevel-bulletin](https://etfoundation.co.uk/tlevel-bulletin)**



## TLPD bulletin

The T Level Professional Development offer bulletin brings you updates on available tools, resources and events.

# REGIONAL FACILITATORS:

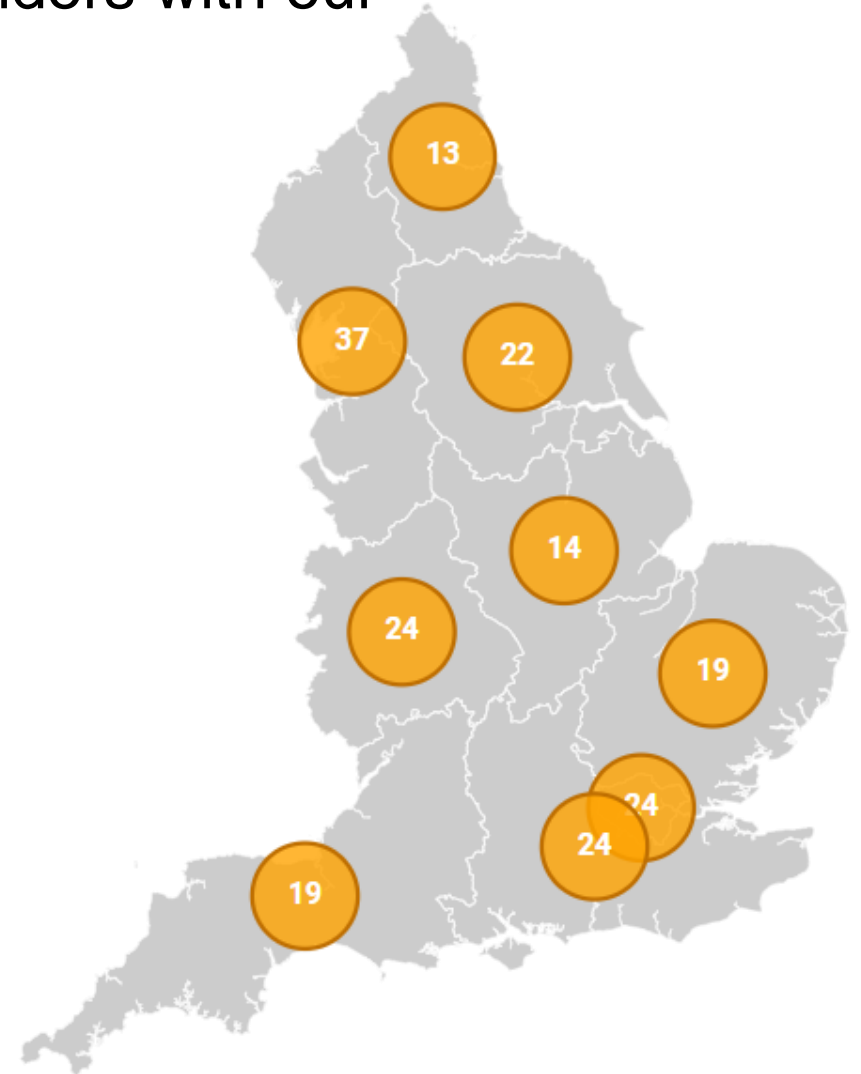
Education & Training Foundation

**EDUCATION & TRAINING  
FOUNDATION**

The Education and Training Foundation (ETF) has a team of Regional Facilitators (RFs) working to support providers with our T Level Professional Development offer.

## Role of Regional Facilitator

- **Raise awareness of T Level qualifications**
- **Support the planning and delivery of T Levels with providers**
- **Signpost providers to relevant CPD and networking opportunities**
- **Provide sector intelligence feedback**



ETFOUNDATION.CO.UK/TLEVELS  
**PDP.ETFOUNDATION.CO.UK/**

ETFOUNDATION.CO.UK

**THANK YOU  
ANY QUESTIONS?**



# Future support

# Have you registered your details for specific specialisms support programme?

We are hosting several upcoming webinars specifically aimed at Wave 1 and Wave 2 T Level providers who will be delivering this new product from September 2021.

- Please complete the T Level Provider Pre-Approval Form via [link](#) which is mandatory for all centres delivering T Levels. We only want this completing once by each eligible provider for wave 2.
- Also please complete T level Provider Contact Update Form via [link](#). This is to be used to provide all additional contacts / staff involved with the T Levels.

Unfortunately this invitation is strictly for providers who have been approved to deliver T Levels and associated organisations.

# Construction and Building Services T Levels

Tom Stottor,  
[thomas.stottor@hoddereducation.co.uk](mailto:thomas.stottor@hoddereducation.co.uk)



# T Levels and Hodder Education

- Hodder Education are excited to be supporting the new Construction and Building Services Engineering T Levels in 2021.
- In the first instance we will be publishing two textbooks, to cover each of City & Guilds/EAL's T Levels' Core Components.
- In addition to these we have lots of other ideas for how we might support you and your students with the new qualifications.
- We would love to hear your thoughts on our plans! And would welcome any ideas you have about what we should publish.
- We will also have our content reviewed before publication and can share sample material in advance, so that you can see how it might support your classroom teaching.
- If you would like to join our Teacher Team, or would like to review content for Hodder Education, please be in touch with Tom Stottor ([thomas.stottor@hoddereducation.co.uk](mailto:thomas.stottor@hoddereducation.co.uk)).

# 2021: What's happening and when?

When	What
July 2021	<ul style="list-style-type: none"><li>• Sample chapters published for <i>Building Services Engineering for Construction T Level: Core</i> and <i>On-site Construction T Level: Core</i> books.</li><li>• These will focus on a unit that teachers find most troublesome and are likely to deliver in the first term (which unit TBC – suggestions welcomed).</li><li>• These will be free and available in print and digital formats.</li></ul>
July 2021	<ul style="list-style-type: none"><li>• Mapping grids published to demonstrate how Hodder Education's existing trade-specific publishing can be used to deliver the T Levels (with particular reference to the Occupational Specialisms).</li><li>• These will be free and available digitally.</li></ul>
October 2021	<ul style="list-style-type: none"><li>• <i>Building Services Engineering for Construction T Level: Core</i> textbook published.</li><li>• Available in print and digital formats (416 pp; £32.99).</li></ul>
November 2021	<ul style="list-style-type: none"><li>• <i>On-site Construction T Level: Core</i> textbook published.</li><li>• Available in print and digital formats (320 pp; £32.99).</li></ul>

# Building Services Engineering for Construction T Level: Core On-site Construction T Level: Core



**Building Services Engineering:**  
9781398332874 // October 2021 // £32.99

**On-Site Construction:** 9781398332904 //  
November 2021 // £32.99



Tackle the Core Components of the new T Levels with these comprehensive textbooks published in association with City & Guilds and EAL.

With topic coverage ranging from the principles of construction science and design to workplace relationship management, the two books will provide complete coverage of the Building Services Engineering and On-site Construction Core Components, and will equip students with the skills they need to shape their careers.

The books will help students to:

- Prepare for their Core exams and the Employer Set Project using tips, assessment practice and model answers
- Apply their knowledge in real-world case studies and discover some of the dilemmas they can expect to face in the workplace
- Understand how to avoid hazards and minimise risk with regular health and safety reminders
- Be ready for the workplace with industry tips
- Develop the functional skills they need to thrive in the industry with English and maths exercises

# Questions & Survey time!

please complete our very short survey

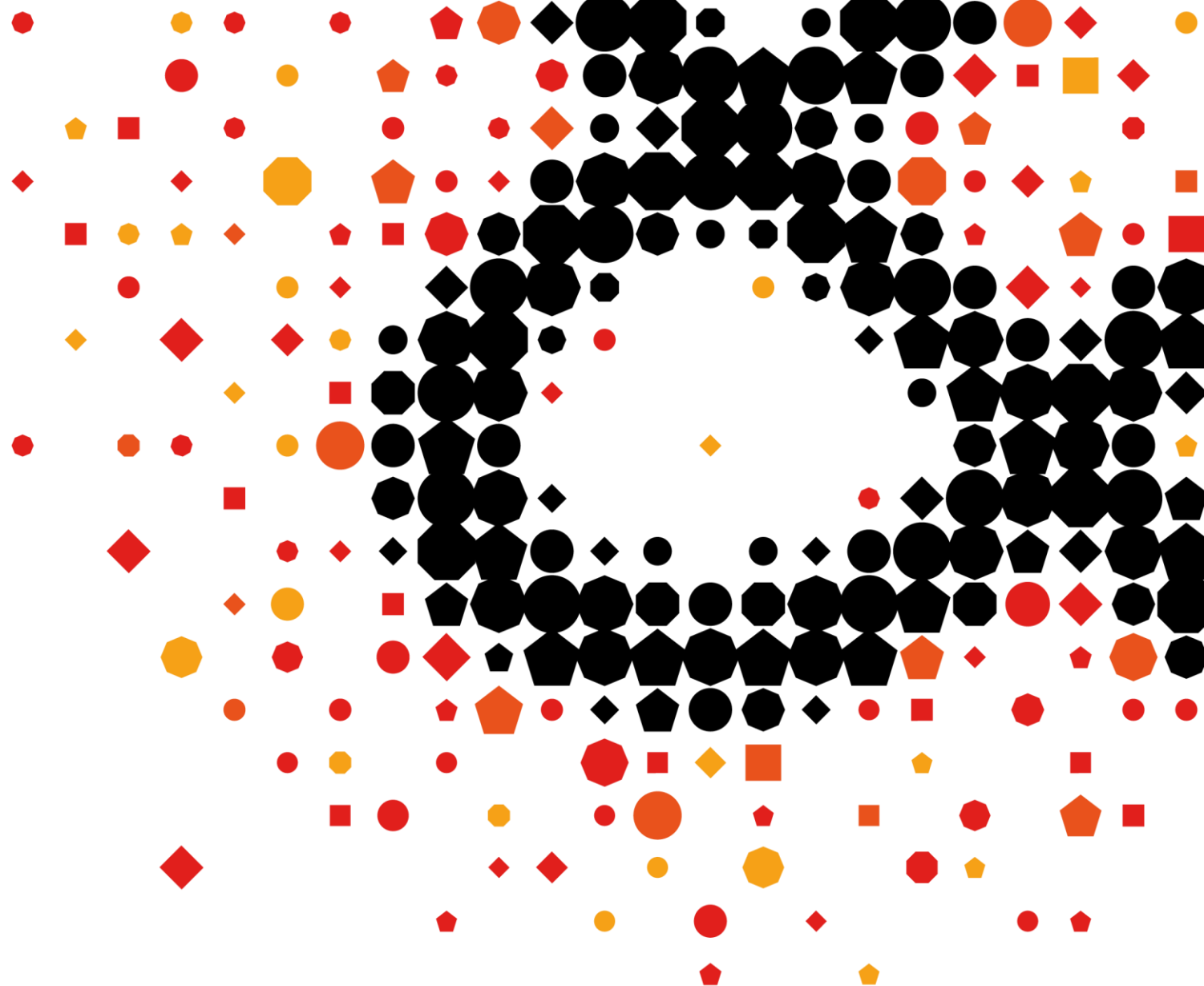
Click [HERE](#)

Or Scan the QR code below





# Thank you





# HOW A PLACEMENT WORKS WITH THE CURRICULUM

## Considerations:

- the sequence of delivery to support learning and attainment e.g. IP in relation to OS
- the assessment key dates set by AOs and when to enter students for summative

