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Education  
Networks**



**Route: Construction**

# **Building Services Engineering**

Roy Alojail

Curriculum Leader, Blackpool and The Fylde College

# Purpose of the Day & Introductions

- Network and relationship building
- Tangible takeaways
- Celebrate progress made

Spend some time introducing yourself. Please include:

- the name of your provider
- T Level delivery experience.



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# Hot Topics

Dominic Martinez, Project Manager, Gatsby  
Roy Alojail, Blackpool and The Fylde College



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# Lunch & Networking

Session 2 starts promptly at 13:30pm



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# Welcome Back

Building Services Engineering



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# Resources

Charlie Moss

Head of Further Education Curriculum Support, Gatsby

# Rationale

Teachers have consistently highlighted:

- low confidence in construction maths
- difficulty with extended calculations
- students skipping 12-mark questions
- challenges transferring maths into context.

This resource is designed to close that gap.

# Overview of Resource

A resource is in development to support construction maths and will include:

- presentation slides covering key principles
- short contextual videos
- exam-style practice activities
- glossary of key terms
- teaching guidance.

# Overview of Resource

The **Teaching Guidance** will include:

- clear sequencing for building maths confidence
- specification mapping and exam focus
- support for teaching maths in context
- guidance on tackling extended 12-mark questions
- links to additional maths support.

# Overview of Resource

## **Topic-based slides** covering:

- core maths principles and formula use
- units, calculations and working steps
- common mistakes and misconceptions
- worked examples and modelling.

# Overview of Resource

## **Scenario-based questions and worksheets, including:**

- lower-mark calculation questions
- extended 12-mark exam-style problems
- contextual construction scenarios
- opportunities for independent practice.



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CONSTRUCTION

# Key mathematical science principles for construction

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# Resource 2: Employer Set Project (ESP)

## Rationale

Additional guidance was requested from BSE T Level teachers regarding the structure of and how marks were allocated for the ESP in an engaging, digestible format. External examiners reports were reviewed and a focus on the planning and evaluation tasks was also confirmed with the awarding body.



# Employer Set Project (ESP)

## Overview of resources

Resources are in development to support ESP delivery including:

- Presentation slides covering key principles
- Three films focusing on a walkthrough of the ESP, 1.3- Project Plan and 2.2 Evaluation Task
- Student led activities to consolidate learning
- Teaching guidance.

# Question for CoP

- What are your initial thoughts on this resource concept?
- What is your initial reaction to this resource proposal?
- Are there other resources that you would like to be developed?



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# Visual Curriculum Models

Charlie Moss

# Curriculum Models

Gatsby undertook some work with AoC in 2023/24 to create macro sequencing curriculum models for four T Levels in Construction, Digital, Engineering & Manufacturing, and Health & Science.

For these routes, we want to update the models based on changes in delivery and decoupling of core assessments and create an additional document to support the curriculum model.

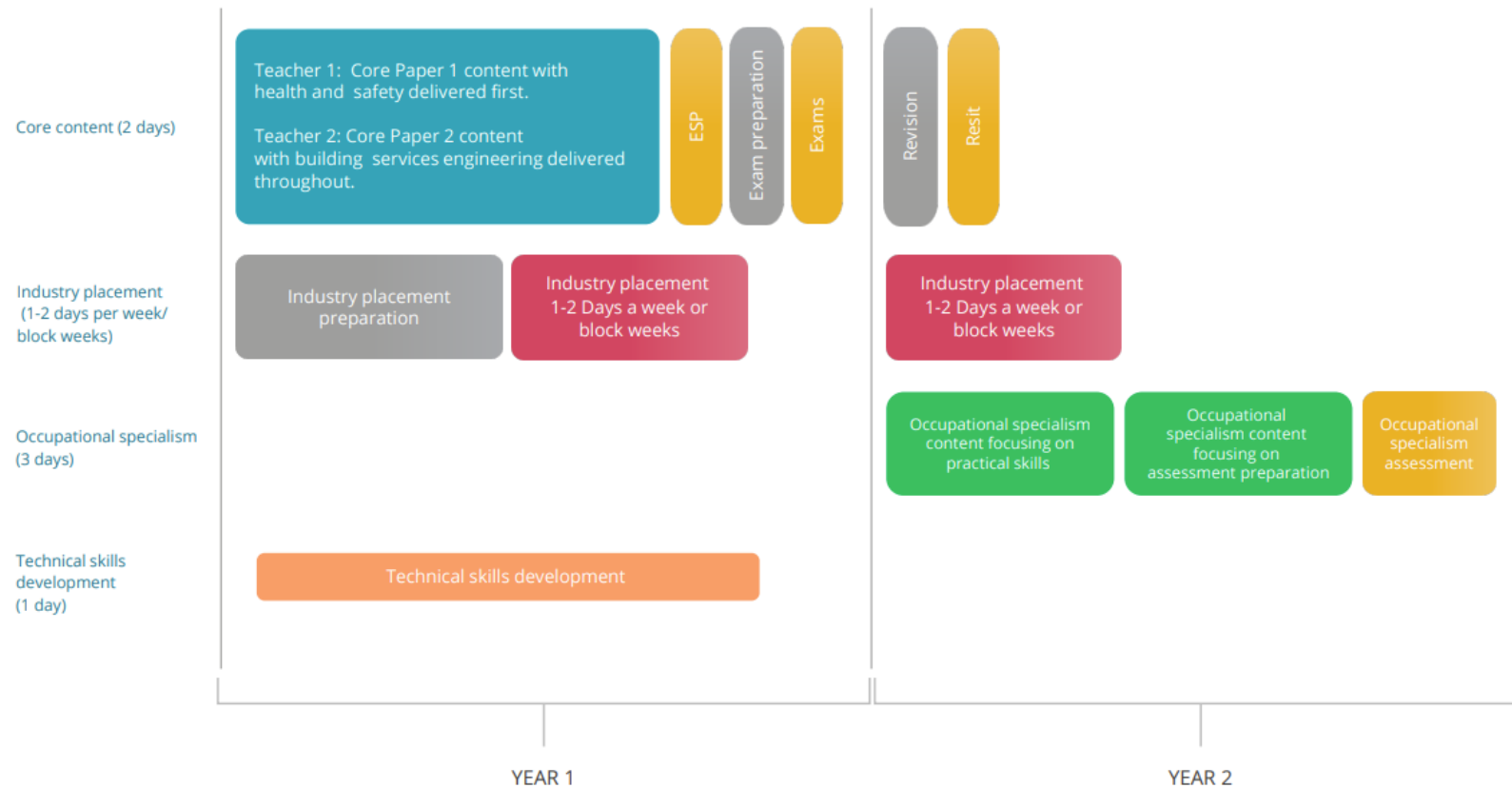
# Curriculum Model Example

## T Level Building Services Engineering (BSE)

### Construction

**Key**

- Core content
- External assessments
- Industry placement
- Occupational specialism
- Assessment + industry placement preparation
- Technical skills



# Curriculum Models

On your tables will be copies of a blank template for the curriculum model. Please can colleagues:

- discuss these on your table and produce/update the models as clearly as you can
- add any useful information to the model you think will be helpful, especially for a new teacher wanting to use the model
- include names, emails and provider names on the back of the model(s) identifying who has contributed to these. We'll want to capture this in the information should we need to follow up before publication.

# Next Steps

The models and documents created today will be given to Gatsby to work with their publishers to create new documents and hopefully published on the Technical Education Networks website.

Please ensure your name, email address and provider are included on the back of the models you have been working on should we need to follow up to clarify any suggestions made.



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# Networking & Discussion

Dominic Martinez & Roy Alojail

# Dates for your diary

## **Industry Associates Training Programme and Event**

**29<sup>th</sup> April 2026**

Gatsby have an in-person event in London for FE Leaders/Teaching and Learning leads and stakeholders to share findings and implementation of the Industry Associates training programme pilot

Please contact [FEworkforce@gatsby.org.uk](mailto:FEworkforce@gatsby.org.uk) for more details or speak to Rory on the Gatsby stand.

## **Next Community of Practice meeting**

**30<sup>th</sup> June 2026 at 15:30**

# Route Reflections & Next Steps

## Before you leave today

We would really value your feedback before you head off. It takes just two minutes and helps us improve future events.

Please scan the QR code now to share your feedback.

T Level Communities of Practice  
Exchange Conference Evaluation





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# Thank you for attending