2a. Construction progression profile

T Level in Design, Surveying and Planning for Construction

The Progression Profile

This T Level has four occupational specialisms: Surveying and design for construction and the built environment, Civil engineering, Building services design, Hazardous materials analysis and surveying.

For these occupational specialisms, there are progression pathways into apprenticeships, education and work.

The T Level is based on an occupational standard. The occupational standard will have an apprenticeship option, which is referred to in the profile as the 'relevant apprenticeship'.

For some apprenticeships, in particular the relevant apprenticeship, a learner may have covered the content to a high level. They will not need to complete the apprenticeship in this step, this is noted as 'not applicable'. An apprenticeship may also be shortened due to recognised prior learning (RPL), this is noted as accelerated. Links to the mapping have been included which detail the areas in need of further development before full competence is reached in that occupation.

For work, whilst some roles may be accessed after completing the T Level, others are available after further training and gaining more experience.

Please see below, the progression options for the occupational specialism:

1. **Surveying and design for construction and the built environment**

For **apprenticeships** at level 3, there is the relevant apprenticeship Surveying Technician (accelerated), Digital Engineering Technician (accelerated) and Geospatial Survey Technician (accelerated).

At Level 4, there is the Construction Site Engineer Technician, Construction Design and Build Technician, and Construction Quantity Surveying Technician.

At Level 6 there is the Chartered Surveyor (degree), Geospatial Mapping and Science (degree), Civil Engineering Site Management (degree), Design and Construction Management (degree), Architectural Assistant (degree), and Building Control Surveyor (integrated degree).

At Level 7 there is the Chartered Town Planner (degree) and Architect (degree).

For **education**, degree options may include building control surveyor, construction quantity surveyor, construction engineering management, construction management, building surveying and architecture.

For **work**, career progression could include surveying technician, building surveying technician, property surveying technician, land surveying technician, environmental surveyor, valuation surveying technician, geospatial survey technician, digital engineering technician, computer aided design and building information management, consultant quantity surveying technician, consultant project management technician, drafters person, contract manager and assistant quantity surveyor.

2. **Civil engineering**

For **apprenticeships** at level 3, there is the relevant apprenticeship Civil Engineering Technician (accelerated), the aligned standard Railway Engineering Design Technician (accelerated) and Transport Planning Technician.

At level 4 there is Information Manager, Civil Engineering Senior Technician, Construction Surveying Technician.

At level 6 there is the Civil Engineering Site Management (degree), Civil Engineer (degree), Transport Planner (integrated degree) and Design and Construction Management (degree).

For **education**, degree options may include civil engineering, construction engineering management and construction management.

For **work**, career progression could include civil engineering technician, civil infrastructure technician, assistant designer, assistant technician, design and building information management, design technician, junior technician, rail design technician, construction technician, civil/structural technician, engineering technician, design technician, highways technician, site engineer, site manager, contracts manager, civil engineer, project engineer, assistant quantity, surveyor, surveying technician and transport planning.

3. **Building Services Design**

For **apprenticeships** at level 3, there is the relevant apprenticeship Building Services Engineering Technician (accelerated).

At level 4 there is the Building Services Engineering Senior Technician, Construction Quantity Surveying Technician, Construction Design and Build Technician and Information Manager.

At level 6 there is Building Services Design Engineer (degree), Building Services Engineering Site Management (degree), and Design and Construction Management (degree).

For **education**, degree options may include construction engineering management, construction management, building services engineering, and mechanical/electrical engineering.

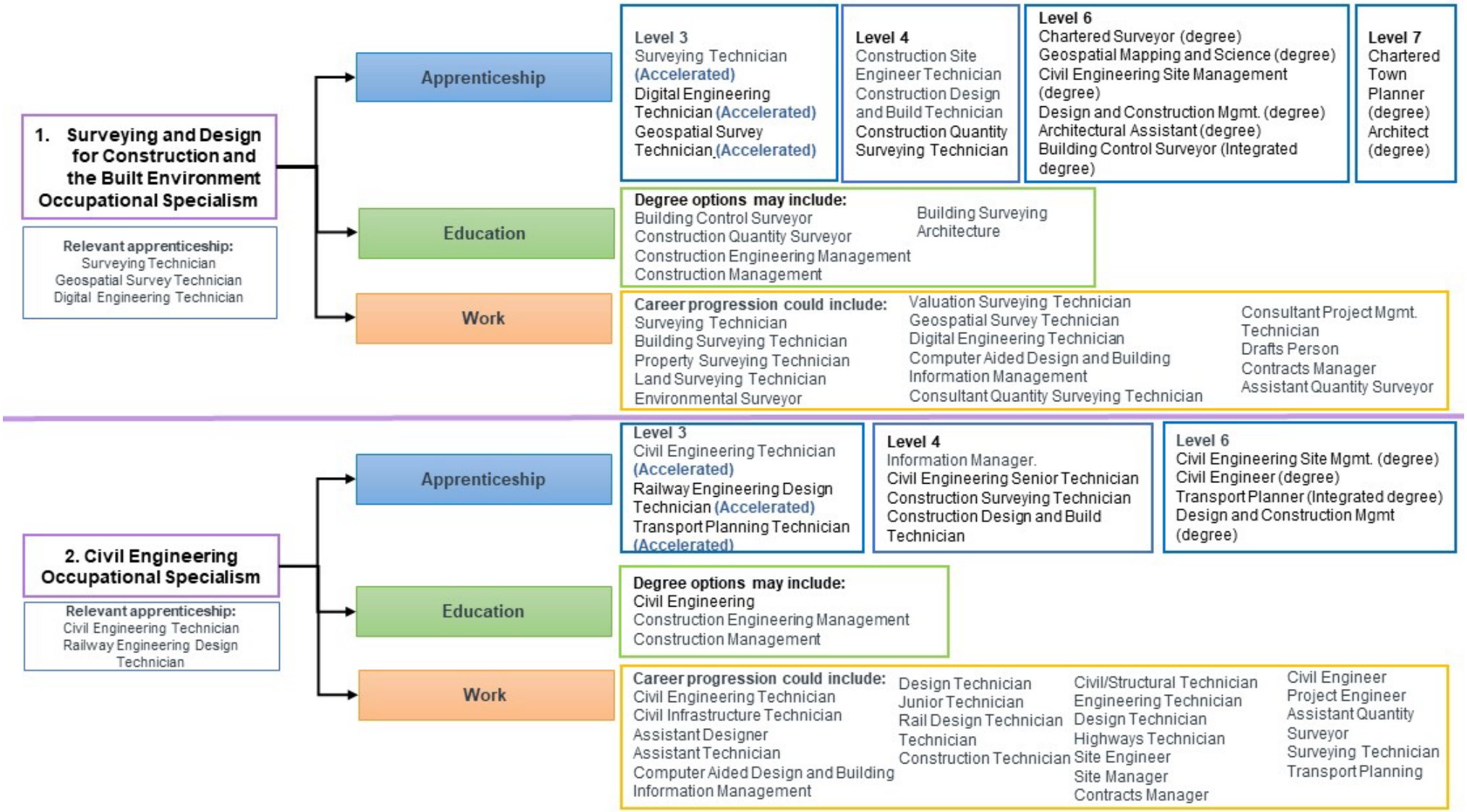
For **work**, career progression could include building services site technician, assistant project engineer, assistant engineer, assistant project manager, site engineer, site manager, contracts manager, project manager, computer aided design and building information management, assistant cost engineer, assistant cost analyst, assistant design coordinator, build/design coordinator, and design manager.

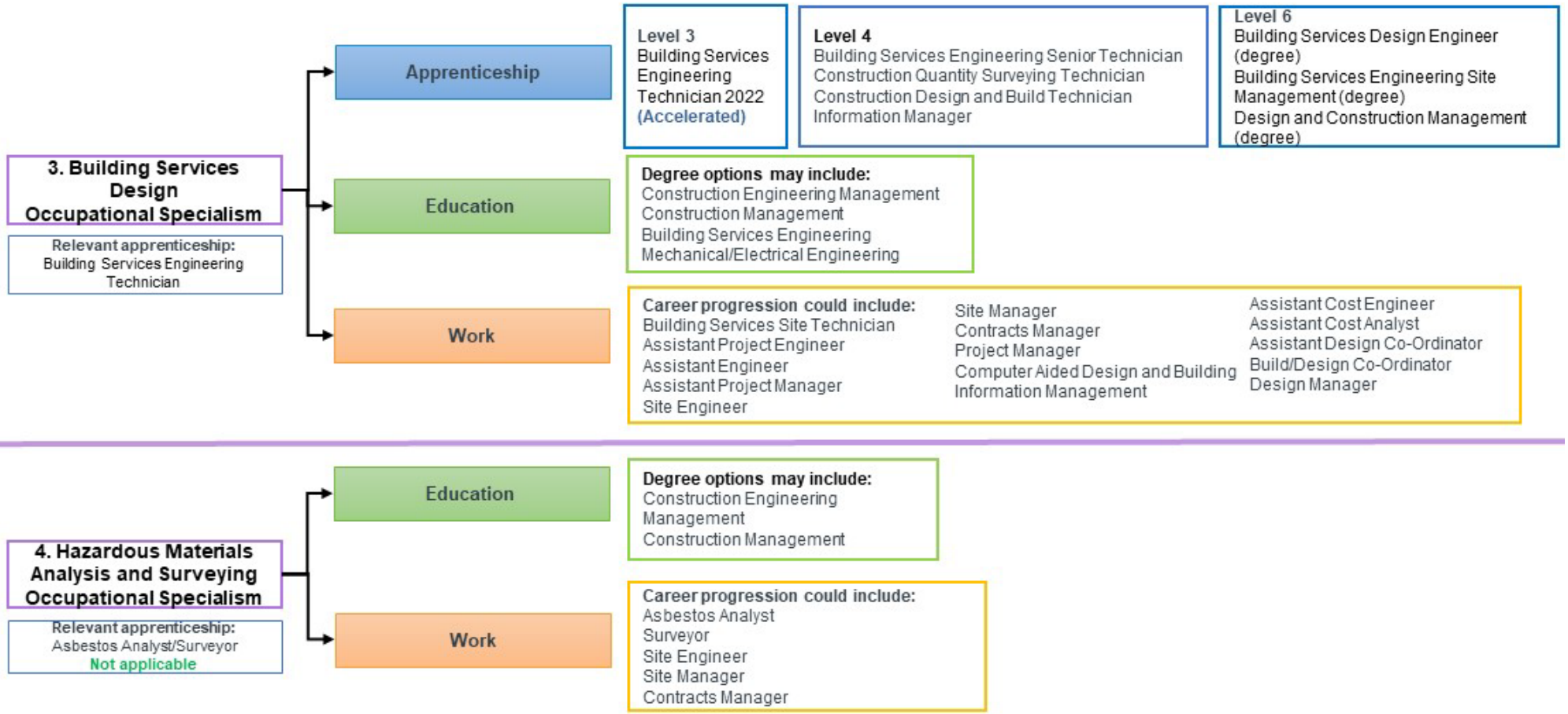
4. **Hazardous materials analysis and surveying**

For **apprenticeships**, the relevant apprenticeship Level 3 asbestos analyst/surveyor is not applicable.

For **education**, degree options may include construction engineering management and construction management.

For **work**, career progression could include asbestos analyst, surveyor, site engineer, site manager and contracts manager.


1. Surveying and Design for Construction and the Built Environment Occupational Specialism
Relevant apprenticeship:
Surveying Technician
Geospatial Survey Technician
Digital Engineering Technician
Apprenticeship
Education
Work
Level 3
Surveying Technician (Accelerated)
Digital Engineering Technician (Accelerated)
Geospatial Survey Technician (Accelerated)
Level 4
Construction Site Engineer Technician
Construction Design and Build Technician
Construction Quantity Surveying Technician
Level 6
Chartered Surveyor (degree)
Geospatial Mapping and Science (degree)
Civil Engineering Site Management (degree)
Design and Construction Mgmt. (degree)
Architectural Assistant (degree)
Building Control Surveyor (Integrated degree)
Level 7
Chartered Town Planner (degree)
Architect (degree)
Degree options may include:
Building Control Surveyor
Construction Quantity Surveyor
Construction Engineering Management
Construction Management
Building Surveying
Architecture
Career progression could include:
Surveying Technician
Building Surveying Technician
Property Surveying Technician
Land Surveying Technician
Environmental Surveyor
Valuation Surveying Technician
Geospatial Survey Technician
Digital Engineering Technician
Computer Aided Design and Building Information Management
Consultant Quantity Surveying Technician
Consultant Project Mgmt. Technician
Drafts Person
Contracts Manager
Assistant Quantity Surveyor
2. Civil Engineering Occupational Specialism
Relevant apprenticeship:
Civil Engineering Technician
Railway Engineering Design Technician
Apprenticeship
Education
Work
Level 3
Civil Engineering Technician (Accelerated)
Railway Engineering Design Technician (Accelerated)
Transport Planning Technician (Accelerated)
Level 4
Information Manager.
Civil Engineering Senior Technician
Construction Surveying Technician
Construction Design and Build Technician
Level 6
Civil Engineering Site Mgmt. (degree)
Civil Engineer (degree)
Transport Planner (Integrated degree)
Design and Construction Mgmt (degree)
Degree options may include:
Civil Engineering
Construction Engineering Management
Construction Management
Career progression could include:
Civil Engineering Technician
Civil Infrastructure Technician
Assistant Designer
Assistant Technician
Computer Aided Design and Building Information Management
Design Technician
Junior Technician
Rail Design Technician
Technician
Construction Technician
Civil/Structural Technician
Engineering Technician
Design Technician
Highways Technician
Site Engineer
Site Manager
Contracts Manager
Civil Engineer
Project Engineer
Assistant Quantity Surveyor
Surveying Technician
Transport Planning


3. Building Services Design Occupational Specialism
Relevant apprenticeship: Building Services Engineering Technician
Apprenticeship
Education
Work
Level 3
Building Services Engineering Technician 2022
(Accelerated)
Level 4
Building Services Engineering Senior Technician
Construction Quantity Surveying Technician
Construction Design and Build Technician
Information Manager
Level 6
Building Services Design Engineer (degree)
Building Services Engineering Site Management (degree)
Design and Construction Management (degree)
Degree options may include:
Construction Engineering Management
Construction Management
Building Services Engineering
Mechanical/Electrical Engineering
Career progression could include:
Building Services Site Technician
Assistant Project Engineer
Assistant Engineer
Assistant Project Manager
Site Engineer
Site Manager
Contracts Manager
Project Manager
Computer Aided Design and Building Information Management
Assistant Cost Engineer
Assistant Cost Analyst
Assistant Design Co-Ordinator
Build/Design Co-Ordinator
Design Manager
4. Hazardous Materials Analysis and Surveying Occupational Specialism
Relevant apprenticeship: Asbestos Analyst/Surveyor
Not applicable
Education
Work
Degree options may include:
Construction Engineering Management
Construction Management
Career progression could include:
Asbestos Analyst
Surveyor
Site Engineer
Site Manager
Contracts Manager