



KNOWLEDGESMART

BIM LEVEL 2

Demonstrate individual
and group BIM Capability
with KnowledgeSmart

- Capture helpful, relevant and accurate metrics
- Use results and gap analysis data to inform training and hiring plans, with the aim of continuously improving performance in this business-critical area.





“

Creating sufficient capacity and capability to meet the growing momentum for BIM and digital working is a key industry wide objective. Benchmarking of current skills and knowledge levels coupled with demonstrable upskilling pathways are important to sustaining growth in a technologically advanced and innovative built environment.

”

David Philp

MSc BSc FICE FRICS FCIQB FCIInstES FGBC -
Global BIM/MIC Consultancy Director, AECOM

AECOM

Do you manage BIM projects? Do you have responsibility for implementing BIM in your business?

BIM Level 2 in essence defines how information should be created, shared and managed. In a collaborative working environment all parties use their own 3D Models, but are not necessarily working on a single, shared model. Design information must be shared through a common file format so that any organisation will be able to combine the data with their own to make a federated BIM model and run interrogative checks on it.

Can you generate a detailed report for your management team of your current organisational BIM strengths and weaknesses?

How does your firm compare to your peers in the wider AEC Industry?

To comply with PAS91, how do you assess BIM training and skills?

How do you demonstrate on your PQQ (Pre-Qualification Questionnaire) that you have all the necessary metrics in place?





BIM Management and Process Assessment Library

Awareness of UK BIM Level 2

The foundation-level knowledge required by everyone involved with BIM in your organisation. Understand the implications and value proposition of BIM.

Modules include: What is BIM?, BS1192, PAS1192-2, PAS1192-3, PAS1192-2-EIR, CIC BIM Protocol, RIBA-Plan of Works.

Adoption and Management of UK BIM Level 2

Understand the implications and value proposition of BIM within your organisation. Understand the requirement for the management and exchange of information between supply chain members and clients as described in the 1192 suite of standards.

Modules include: Project Start-up Requirements, PAS1192-2-BEP, BS1192-CDE, BS1192-Container Naming, PAS1192-Roles, BS1192-4, PAS1192-5, Government Soft Landings.

UK BIM Level 2 Theory

Understand what BIM is, the contextual requirement for BIM Level 2 and its connection to the Government Construction Strategy and Industrial Strategy 2025.

Topics include: Roles and responsibilities of the supply chain, Barriers to successful adoption of BIM Level 2, Organisational change management, Assessment of capability of your organisation, Potential security threats, the Common Data Environment (CDE), Issues of IP and copyright, Insurances and potential liabilities.

Practical BIM Fundamentals

This assessment looks at knowledge of a range of general BIM management tasks, including: General BIM Principles, Implementation, Modeling, Information Exchange and Project Coordination.



BIM Management and Process Assessment Library (...cont)

BIM Authoring with Revit (Fundamentals)

This assessment for Information Originators looks at basic concepts of BIM authoring and knowledge of the DPSM (Digital Production Standards Manual), for firms using Autodesk Revit.

Topics include: Purpose, Documents, Coordinates, Parameters, Validation, Model Types, File Naming, Layer Naming and Drawing Coordination.

BIM Authoring with Revit (Advanced)

This assessment for Information Originators looks at more advanced concepts of BIM authoring and knowledge of the DPSM (Digital Production Standards Manual), for firms using Autodesk Revit.

Topics include: Project Setup, System Family, IFC Import, IFC Export, IFC Modelling, IFC Validation.

BIM Authoring with AECOsim (Fundamentals)

This assessment for Information Originators looks at basic concepts of BIM authoring and knowledge of the DPSM (Digital Production Standards Manual), for firms using Bentley AECOsim.

Topics include: Purpose, Documents, Coordinates, Parameters, Validation, Model Types, File Naming, Layer Naming and Drawing Coordination.

BIM Authoring with AECOsim (Advanced)

This assessment for Information Originators looks at more advanced concepts of BIM authoring and knowledge of the DPSM (Digital Production Standards Manual), for firms using Bentley AECOsim.

Topics include: Project Setup, Compound Cells, Project Items, IFC Import, IFC Export, IFC Modelling, IFC Validation.



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BIM Management and Process Assessment Library (...cont)

BIM Software Management (AECOsim)

This assessment for Task Information Management (Reviewers) looks at basic concepts of BIM Software Management, for firms using Bentley AECOsim.

Topics include: Uniclass1.4 / Uniclass 2015, Information Validation, Project Review.

BIM Software Management (Revit)

This assessment for Task Information Management (Reviewers) looks at basic concepts of BIM Software Management, for firms using Autodesk Revit.

Topics include: Uniclass1.4 / Uniclass 2015, Information Validation, Project Review.

BIM Coordination (Revit)

This assessment for BIM Coordinators looks at basic concepts of BIM Software Coordination, for firms using Autodesk Revit.

Topics include: Revit Configuration, Project Resources, Parameters, View Templates, Family Editor.

Project Process (Revit)

This assessment for BIM Coordinators and Managers looks at the impact of using Autodesk Revit in a Project environment.

Topics include: Views, Families, Worksharing and Schedules. Sample data sets for the task based questions are based on Revit Architecture.





BIM Management and Process

Assessment Library - Architecture

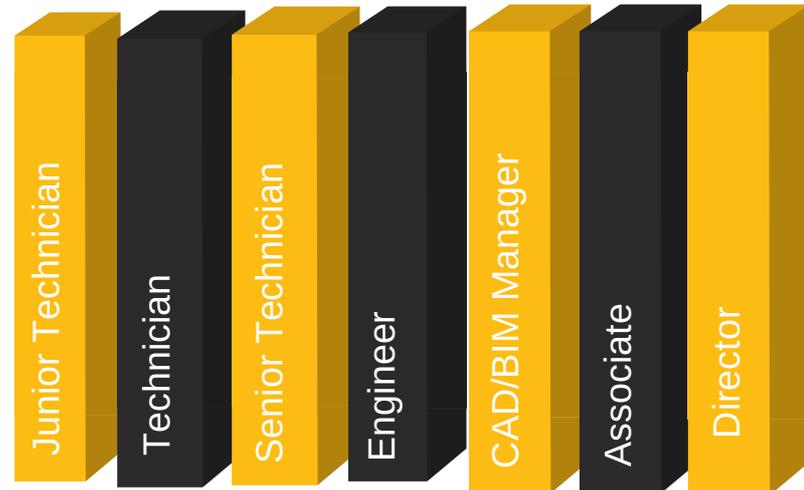
	Architectural Assistant	PT 1 / PT 2 Architect	Architect / Associate	CAD/BIM Manager	Project Runner/Director
Awareness of UK BIM Level 2	✓	✓	✓	✓	✓
Adoption and Management of UK BIM Level 2			✓	✓	✓
UK BIM Level 2 Theory	✓	✓	✓	✓	✓
Practical BIM Fundamentals			✓	✓	✓
BIM Authoring with AECOsim (Fundamentals)	✓	✓	✓		
BIM Authoring with Revit (Fundamentals)	✓	✓	✓		
BIM Authoring with AECOsim (Advanced)			✓		
BIM Authoring with Revit (Advanced)			✓		
BIM Software Management (AECOsim)				✓	
BIM Software Management (Revit)				✓	
BIM Coordination (Revit)				✓	
Project Process (Revit)				✓	





BIM Management and Process

Assessment Library - Structural Engineering

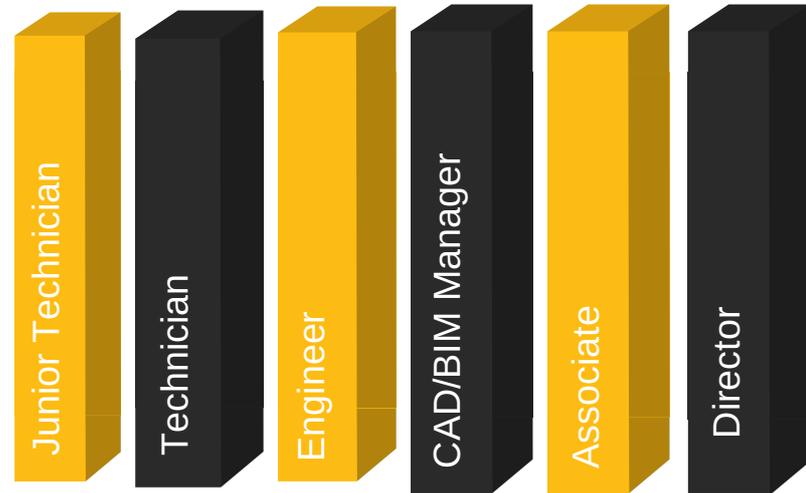


	Junior Technician	Technician	Senior Technician	Engineer	CAD/BIM Manager	Associate	Director
Awareness of UK BIM Level 2	✓	✓	✓	✓	✓	✓	✓
Adoption and Management of UK BIM Level 2			✓	✓	✓	✓	✓
UK BIM Level 2 Theory	✓	✓	✓	✓	✓	✓	✓
Practical BIM Fundamentals			✓	✓	✓		
BIM Authoring with AECOsim (Fundamentals)	✓	✓	✓	✓			
BIM Authoring with Revit (Fundamentals)	✓	✓	✓	✓			
BIM Authoring with AECOsim (Advanced)			✓	✓			
BIM Authoring with Revit (Advanced)			✓	✓			
BIM Software Management (AECOsim)					✓		
BIM Software Management (Revit)					✓		
BIM Coordination (Revit)					✓		
Project Process (Revit)					✓		



BIM Management and Process

Assessment Library - MEP Engineering



	Junior Technician	Technician	Engineer	CAD/BIM Manager	Associate	Director
Awareness of UK BIM Level 2	✓	✓	✓	✓	✓	✓
Adoption and Management of UK BIM Level 2			✓	✓	✓	✓
UK BIM Level 2 Theory	✓	✓	✓	✓	✓	✓
Practical BIM Fundamentals			✓	✓		
BIM Authoring with AECOsim (Fundamentals)	✓	✓	✓			
BIM Authoring with Revit (Fundamentals)	✓	✓	✓			
BIM Authoring with AECOsim (Advanced)			✓			
BIM Authoring with Revit (Advanced)			✓			
BIM Software Management (AECOsim)			✓			
BIM Software Management (Revit)				✓		
BIM Coordination (Revit)				✓		
Project Process (Revit)				✓		



BIM Management and Process Assessment Library - Civil Engineering

	Graduate Engineer/ Junior Technician	Engineer/Technician	Associate	Director
Awareness of UK BIM Level 2	✓	✓	✓	✓
Adoption and Management of UK BIM Level 2		✓	✓	✓
UK BIM Level 2 Theory	✓	✓	✓	✓
Practical BIM Fundamentals		✓		
BIM Authoring with AECOsim (Fundamentals)				
BIM Authoring with Revit (Fundamentals)				
BIM Authoring with AECOsim (Advanced)				
BIM Authoring with Revit (Advanced)				
BIM Software Management (AECOsim)				
BIM Software Management (Revit)				
BIM Coordination (Revit)				
Project Process (Revit)				
AutoCAD Civil 3D (Part1-4)	✓	✓	✓	✓



BIM Management and Process

Assessment Library - Quantity Surveying

Trainee / Assistant

Quantity Surveyor

Director

Awareness of UK BIM Level 2



Adoption and Management of UK BIM Level 2



UK BIM Level 2 Theory



Practical BIM Fundamentals



BIM Authoring with AECOsim (Fundamentals)



BIM Authoring with Revit (Fundamentals)



BIM Authoring with AECOsim (Advanced)



BIM Authoring with Revit (Advanced)



BIM Software Management (AECOsim)

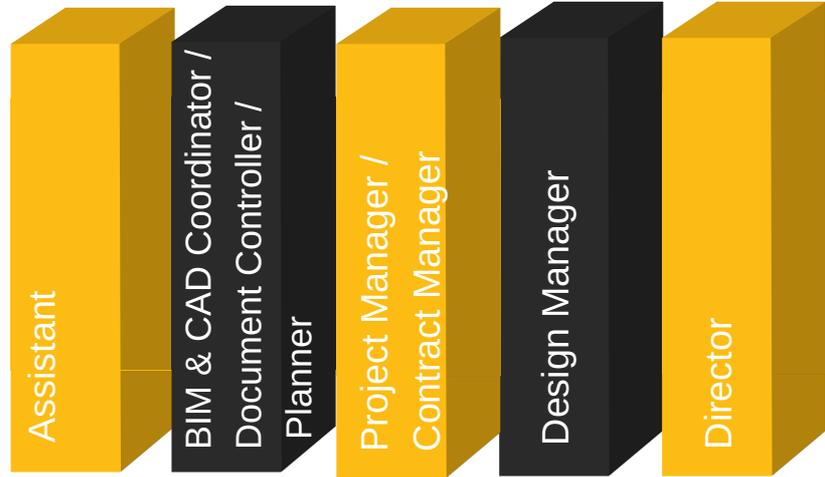
BIM Software Management (Revit)

BIM Coordination (Revit)

Project Process (Revit)



BIM Management and Process Assessment Library - Contractor



Awareness of UK BIM Level 2	✓	✓	✓	✓	✓
Adoption and Management of UK BIM Level 2	✓	✓	✓	✓	✓
UK BIM Level 2 Theory	✓	✓	✓	✓	✓
Practical BIM Fundamentals	✓	✓	✓		
BIM Authoring with AECOsim (Fundamentals)					
BIM Authoring with Revit (Fundamentals)					
BIM Authoring with AECOsim (Advanced)					
BIM Authoring with Revit (Advanced)					
BIM Software Management (AECOsim)		✓			
BIM Software Management (Revit)		✓			
BIM Coordination (Revit)		✓			
Project Process (Revit)		✓			



BIM Management and Process Assessment Library - Owner-Operators and Developers

	Project Assistant/ Estimator	BIM & CAD Coordinator / Document Controller / Planner	Division, Project, Operations Managers	Facilities Manager	Director/COO
Awareness of UK BIM Level 2	✓	✓	✓	✓	✓
Adoption and Management of UK BIM Level 2	✓	✓	✓	✓	✓
UK BIM Level 2 Theory	✓	✓	✓	✓	✓
Practical BIM Fundamentals	✓	✓	✓	✓	✓
BIM Authoring with AECOsim (Fundamentals)		✓		✓	
BIM Authoring with Revit (Fundamentals)		✓		✓	
BIM Authoring with AECOsim (Advanced)		✓		✓	
BIM Authoring with Revit (Advanced)		✓		✓	
BIM Software Management (AECOsim)		✓			
BIM Software Management (Revit)		✓			
BIM Coordination (Revit)		✓			
Project Process (Revit)		✓	✓	✓	





BIM Software Assessment Library

Architectural Assessment Topics

- Revit Architecture Fundamentals
- Revit Architecture Occasional Use
- Revit Architecture Advanced
- Revit Architecture Xpress
- Revit Content Creation
- Revit Architecture for Interiors
- Bentley AECOsim Building Designer Fundamentals (Architectural)
- Graphisoft ArchiCAD Fundamentals (Parts 1-4)



MEP Engineering Assessment Topics

- Revit MEP Fundamentals (Mechanical)
- Revit MEP Fundamentals (Electrical)
- Revit MEP Fundamentals (Plumbing)
- Revit MEP Advanced
- Revit MEP Xpress

Structural Engineering Assessment Topics

- Revit Structure Fundamentals
- Revit Structure Advanced
- Revit Structure Xpress
- Bentley AECOsim Building Designer Fundamentals (Structural)

Civil Engineering Assessment Topics

- AutoCAD Civil 3D (Part1-4)
- AutoCAD Civil 3D - Road Design (Adv)

Assessment Topics for advanced clash detection, deficiency detection, BIM and accessibility compliance, model comparisons, full information take off and real-time collaboration

- Autodesk Navisworks
- Autodesk BIM Glue
- Solibri Fundamentals



Data Management

- Autodesk Vault Fundamentals



Project Management Assessment Topics

- Oracle Primavera
- Microsoft Project





About KnowledgeSmart

KnowledgeSmart delivers skills gap analysis and benchmarking services that helps our customers maximise their return on investment in technology, people and client services.

As a mature cloud-based service provider, KnowledgeSmart is the only online subscription offering that analyses and benchmarks construction industry software-user skills to help businesses create new efficiencies and develop competitive advantage to win more work and increase profit margins.

KnowledgeSmart helps you to capture more useful skills data than ever before.

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