

BIM Task Group Learning Outcomes Framework for BIM Level 2



Key subject. Covered in detail



Some coverage but not a major topic area



Briefly mentioned

1	Understand what BIM is, the contextual requirement for BIM Level 2 and its connection to the Government Construction Strategy and Industrial Strategy 2025.		
	Knowledge requirements:	BIM FOR INFRASTRUCTURE	BIM IMPLEMENTATION
1.01	Background and the need for collaborative working (removing waste, errors and poor quality/incomplete information)	✓✓✓	✓
1.02	The value of whole life and whole estate approach rather than capital-led and single asset	✓✓✓	✓
1.03	The concept of Soft Landings / Government Soft Landings (GSL)	✓	
1.04	Roles and responsibilities of the supply chain members and clients as part of BIM Level 2 delivery (cultural / behavioural)	✓✓	✓✓✓
1.05	External context for BIM, global, national, standards and support communities	✓✓	✓
1.06	Core and extended suite of standards, documents and deliverables describing BIM Level 2	✓✓✓	✓
1.07	Barriers to successful adoption of BIM Level 2 and how to create the conditions for success	✓	✓✓✓
1.08	The value of high quality data and the principles of data management	✓✓✓	✓
1.09	The key vulnerability issues and nature of controls required to enable the trustworthiness and security of digitally built assets	✓	✓✓
2	Understand the implications and value proposition of BIM within your organisation.		
	Knowledge requirements:	BIM FOR INFRASTRUCTURE	BIM IMPLEMENTATION
2.01	Implementation implications for the introduction of BIM Level 2 on your organisation and supply chain (e.g. training, management processes and systems)	✓	✓✓
2.02	Organisational change management considerations in context of the introduction of BIM Level 2	✓	✓✓✓
2.03	Assessment of capability of your organisation and your supply chain (e.g. standard methods of assessment PAS91 Table 8)	✓	✓
2.04	Technical, technology and interoperability requirements of Level 2 BIM (Information Management / CDE, model-based design and analysis)	✓✓✓	
2.05	The importance of Level 2 BIM as a driver for business process review and improvement	✓	✓✓
2.06	Legal and commercial implementation implications for the introduction of BIM Level 2 on your organisation and supply chain (e.g. commercial stakeholders)	✓✓✓	✓
2.07	The value, benefits and investment associated with BIM Level 2	✓✓	✓✓
2.08	How BIM supports the relationship between Design and Construction and Facilities and Asset Management	✓✓✓	✓
2.09	The potential security threats to built and information assets, and the need for the development of an appropriate and proportionate security risk management approach	✓	✓✓
3	Understand the requirement for the management and exchange of information between supply chain members and clients as described in the 1192 suite of standards and PAS55 / ISO 55000.		
	Knowledge requirements:	BIM FOR INFRASTRUCTURE	BIM IMPLEMENTATION
3.01	The purposes for information in the capital and asset phase	✓✓✓	
3.02	Requirements for the exchange of information between supply chain members in a collaborative manner as described in PAS1192-2: 2013 and PAS1192.3: 2014, and provided in conjunction with BS1192:2007	✓✓✓	✓
3.03	Roles and responsibilities of the supply chain members and clients of BIM Level 2 and the implications on Scopes of Services	✓✓	✓✓✓
3.04	BIM Plain Language Questions, Employers Information Requirements (EIR), Organisation Information Requirements, Asset Information Requirements and the exchange of information between supply chain and client in a collaborative manner in context of PAS1192.2: 2013 and PAS1192.3:2014	✓✓✓	✓
3.05	BIM Execution Plan (BEP) in context of PAS1192.2:2013 - the related concepts, purpose and implementation principles	✓✓✓	✓
3.06	Digital delivery of information between supply chain members and with clients in context of BS1192-4:2014(COBie), Digital Plan of Work (DPoW) and classification systems	✓✓✓	
3.07	The Concept, purpose and implementation principles of Project Information Models (PIM) & Asset Information Models (AIM) and the relationship and interchange between them	✓✓✓	
3.08	A Common Data Environment (CDE) as described in the 1192 suite of standards	✓✓✓	✓
3.09	The implications of Level 2 BIM in relation to project team working methods as described in BS1192:2007	✓✓	✓✓
3.10	The way in which Level 2 BIM can be adopted to benefit decision-making for design management	✓	
3.11	Technologies and methods for creating, using and maintaining structured information	✓	
3.12	Contractual interventions required to support BIM Level 2 and the implications on existing forms of contract	✓	✓
3.13	Ownership of information and related issues of IP and copyright, insurances and potential liabilities	✓✓	
3.14	Requirements for security-minded policies, processes and procedures which address specific security threats or combinations of threats in a consistent and holistic manner	✓	✓✓