Professional Certification - Foundation

Learning Outcome
“Basic” Curriculum

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BASIC Curriculum - Learning Outcomes

1) **Understand what BIM is, why it is needed, and recognise its specific terminology.**
   1-1) Define the drivers that have led to BIM;
   1-2) Define BIM;
   1-3) Identify & Define key BIM terminology;
   1-4) Know the stages of information management (BIM) maturity;
   1-5) Define what constitutes an Information Model.

2) **Recognise the advantages of BIM compared to traditional project delivery.**
   2-1) Know why collaborative and new ways of working are required;
   2-2) Identify the effects of poor information management on projects;
   2-3) Identify the process and standards developed to mitigate poor information;
   2-4) Identify the benefits of BIM for design and construction professionals;
   2-5) Identify the benefits of BIM for facility owner and operators.

3) **Understand the project information management, with BIM, according to the ISO 19650 series.**
   3-1) Understand why appointing parties need to clearly define their requirements
   3-2) Understand the content and value of a BIM Execution Plan (BEP);
   3-3) Know why consistent exchanges of information are required;
   3-4) Identify the key elements and benefits of using a Common Data Environment (CDE);
   3-5) Know why clearly defined information management roles are required;
   3-6) Know why assessing potential supply chain members before appointment is required.

4) **Recognise the need for open and interoperable solutions**
   4-1) Know what buildingSMART is and what it represents;
   4-2) Define openBIM and its benefits compared to using proprietary solutions;
   4-3) Know what IFC is, and its benefits;
   4-4) Know what MVDs are, and their benefits;
   4-5) Know what IDM are, and their benefits;
   4-6) Know what the bSDD is, and its benefits;
   4-7) Know what BCF is, and its benefits.

5) **Understand the terms and measures of BIM capability within an organisation**
   5-1) Understand the potential benefits for a company in adopting BIM;
   5-2) Understand the factors that define an organisation's level of BIM Maturity;
   5-3) Know why BIM adoption needs to align to Organizational goals;
   5-4) Identify the benefits and challenges to BIM adoption;
   5-5) Know what the data security implications are for adopting BIM.