

### COURSE OBJECTIVES:

Designed for Quantity Surveyor to speed up the estimating process by supporting the use of the New Rules of Measurement. Focus of this course will be more on:

- Introduction to BIM
- Uses of BIM
- BIM capabilities
- BIM Dimensions
- Using Revit MEP
- Scheduling
- Cost estimation

### DAY 1

Introduction	<ul style="list-style-type: none"> <li>• Roles &amp; Responsibilities of Project Team</li> <li>• Main elements of BIM</li> </ul>
BIM Technology	<ul style="list-style-type: none"> <li>• BIM Software Application</li> <li>• Issues &amp; Limitation</li> </ul>
BIM Protocol	<ul style="list-style-type: none"> <li>• Standard Documents – i.e. PAS 1192, National BIM Standard, JKR, etc.</li> <li>• BIM Process Mapping</li> <li>• BIM in Business – Benefits, Drivers, Functionality</li> </ul>
BIM Information Management	<ul style="list-style-type: none"> <li>• Information Management</li> <li>• BIM Deployment – Expectation as each stage of PLC</li> <li>• Employer Information Request (EIR)</li> </ul>
BIM Capabilities	<ul style="list-style-type: none"> <li>• BIM Competency Map</li> <li>• BIM Organizational Readiness</li> <li>• Organizational Checklist</li> </ul>

### DAY 2

BIM Dimensions	<ul style="list-style-type: none"> <li>• BIM Dimensions and projects lifecycle (PLC)</li> <li>• Brief of 3D to 7D</li> </ul>
BIM Level of Development (LOD)	<ul style="list-style-type: none"> <li>• Brief on LOD (Graphic Representation &amp; Information)</li> <li>• Verification of LOD Compliance</li> </ul>
BIM Execution Plan	<ul style="list-style-type: none"> <li>• Identify BIM Goals and Uses</li> <li>• Designing the BEP</li> <li>• Information Exchanges</li> <li>• Define Supporting Infrastructure</li> <li>• Pre &amp; Post Contract of BEP – Legal, Procurement, Tendering, Intellectual Property, Potential Liabilities, etc.</li> <li>• Roles and responsibilities of all stakeholders</li> <li>• Task Information Delivery Plan (TIDP)</li> <li>• Project Information Model (PIM) Validation – WIP, Shared, Published, Archive</li> <li>• Sample Presentation of BEP</li> </ul>
Scheduling in Revit	<ul style="list-style-type: none"> <li>• Working with Basic Schedules</li> <li>• Working with Room Schedules</li> <li>• Controlling the Appearance of Schedules</li> </ul>
Cost Estimation	<ul style="list-style-type: none"> <li>• Calculate cost using schedule and quantity</li> <li>• Calculate value (setting formula)</li> </ul>