

2022 Specialist Block Training Programme

Block	Wk No	Course Dates	Subject Area
BLOCK 1 2D AutoCAD and Drawing Production	1	25 th Apr – 29 th Apr 26 th Sep – 30 th Sep	<p>Introduction to Design and Draughting & AutoCAD</p> <p>Configuring AutoCAD - hardware and software</p> <p>Learn basic AutoCAD commands - drawing/modifying</p> <p>Create line type, layers, hatching, blocks</p> <p>Create templates, dimension styles, text styles, title blocks</p> <p>Introduce industry standard exercises – buildings, building components</p>
	2	3 rd May – 6 th May 3 rd Oct – 7 th Oct	<p>Viewports and paper space manipulation</p> <p>Issue drawing for project with Orthographic Projections - 2D CAD</p> <p>Section and elevation drawing and detailing</p> <p>Handling embedded/linked objects in AutoCAD</p> <p>Handling raster objects in AutoCAD</p> <p>Handling XREF's in AutoCAD</p> <p>Creating, modifying and inserting blocks</p>
BLOCK 2 3D AutoCAD and advanced commands	3	9 th May – 13 th May 10 th Oct – 14 th Oct	<p>Pseudo 3D i.e. Isometric, Oblique, Axonometric</p> <p>Introduce 3D AutoCAD techniques</p> <p>Use 2D stair from Block 1 or provide with 2D drawing.. Create a 3D version with cutouts and nibs.</p> <p>Complex AutoCAD 2D & 3D drawings</p> <p>Create a paper space drawing showing 2D, 3D and title block</p>
BLOCK 3 RC Detailing	4	23 rd May – 27 th May 17 th – 21 st Oct	<p>Introduction to RC Detailing</p> <p>Basic Design Principles</p> <p>Documentation (BS8666, EC2, Standard Method of Detailing)</p> <p>Detailing Principles – construction sequence, buildability, laps, anchorage, cover</p> <p>Drawing & Schedule Production</p>
BLOCK 4 Revit (Mandatory if BTEC)	5	6 th June – 10 th June 31 st Oct – 4 th Nov	<p>Introduction to Revit</p> <p>Basic Revit Commands and drawing techniques</p> <p>Linking CAD drawings as a backcloth</p> <p>Create as example 3D drawing and undertake the basic commands.</p> <p>family creation / modification</p>
	6	13 th June – 17 th June 7 th Nov – 11 th Nov	<p>Advanced structural techniques and commands. (Including roof, steel and concrete structural elements)</p> <p>Issue written specification for group extension project and develop the design options.</p> <p>Develop presentation skills and present findings to employers and peers.</p>
Block 5 BIM Project ISO 19650 (Mandatory if BTEC)	7	20 th June – 24 th June 14 th Nov – 18 th Nov	<p>BIM Project</p> <p>What is BIM? Roles and responsibilities.</p> <p>Introduction to a CDE, BEP, EIR, AIR and NBS Toolkit</p> <p>Cobie</p> <p>RIBA, BIM protocol. Clash detection.</p>
BLOCK 6 TEKLA	8	27 th June – 1 st July 21 st Nov – 25 th Nov	<p>Introduction to TEKLA, Concept, screen layout, navigation, configuration</p> <p>Basic commands</p> <p>Use TEKLA to create industry standard steelwork and reinforcement drawings</p>
BLOCK 7 Surveying for Construction (Mandatory if BTEC)	9	4 th July – 8 th July 28 th Nov – 2 nd Dec	<p>Measured surveys - Method, Equipment, People, Survey Arrangements, Safe Working Practices, Circumstances & Conditions, Survey Information, Presentation of information</p> <p>Levelling surveys to produce drawings</p>
	10	11 th July – 15 th July 5 th Dec – 9 th Dec	<p>Linear Surveys to produce drawings</p> <p>Measure angles and produce results from calculations</p> <p>Perform setting out of small buildings</p>