

10 Day Programme Outline

The JSSP programme is designed to give job seekers in the AEC (Architecture, Engineering, and Construction) sector, upskilling in their technical IT skills, to enhance their prospects of employment. The sector is becoming increasingly technology driven, with the uptake in BIM (Building Information Modelling) and use of online collaboration tools like Microsoft Office 365, Google Docs, Autodesk BIM 360, etc. The JSSP programme aims to provide candidates with working knowledge of these tools and processes, over a 10-day training course, structured in a way that candidates will be using these collaboration tools in practice over the 10-day period.

Outline of the 10-Days Training (set out as 20 x ½-day modules)**General Appreciation of Technology Tools for Construction (2½-days)**

This series of modules will provide the candidates with basic skills on a number of freely available technology tools used in construction, particularly in relation to BIM.

Modules include:

- ½-day Overview of the Technology Landscape of AEC (BIM and online collaboration)
- ½-day Overview of Microsoft Office 365 and online collaboration
- ½-day Microsoft Excel – a tool for data management and manipulation
- ½-day Understanding the principles and terminology of 3D Modelling (Sketchup/Formit 360)
- ½-day Autodesk A360 model sharing, viewing and reviewing

Essential Building Information Modelling Skills (BIM) using Autodesk Revit (4½ -days)

This series of modules will provide the candidates with the basic skills for working in Autodesk Revit for producing and managing construction information and documentation.

Modules include:

- ½-day Introduction to Autodesk Revit as a BIM authoring tool
- ½-day Revit 2017 Essential Building Systems (Walls, Floors, Ceilings, Roofs)
- ½-day Revit Architecture 2017, Essentials Component Families (Doors, Windows, Furniture, Basic family editing etc.)
- ½-day Revit 2017 Essential Building Systems (Curtain Wall Systems, Sloped Glazing)
- ½-day Revit 2017, Stairs, Ramps & Railings
- ½-day Formatting Schedules, Area Plans & Colour Fill Plans
- ½-day Revit Architecture 2017 Creating Component Families,
- ½-day Revit Project Set-up/Management (Template, Worksets, Shared Coordinates, Linking files, Copy/monitor, Interference Check, Phasing, Design Options)
- ½-day Formatting Drawings in Revit 2017 (Materials, Objects Styles, Visibility Graphics, View Templates, tags/Shared parameters, etc.)

Essential Skills for BIM Coordination and Project Management (2-days)

This series of modules will provide candidate with the skills to review and analyse models using Autodesk Navisworks, and the skills to manage a BIM project following PAS1192-2 standard.

Modules include:

- ½-day Understanding Navisworks, Interface Review & Redline. Selection Sets
- ½-day Understanding Navisworks, Clash Detection & Timeliner
- ½-day BIM Project Management & Working to BIM Standards (PAS1192)
- ½-day Using NBS BIM Toolkit to define project information requirements

Preparing for Employment (1-day)

This day is dedicated to give the candidates the knowledge and skills to prepare for job applications, interviews, and employment.

- ½-day Preparing your CV and Interview Techniques
- ½-day Autodesk Revit Users Exam (including Preparation)