

**List of Competencies for On-the-Job Training (OJT) Work-Study  
Diploma in Architectural BIM & Design**

Note: LOC is subject to changes due to curriculum review/ development

<b>S/N</b>	<b>List of Competencies (Standard)</b>	<b>Company to indicate '✓' for OJT competencies it can provide</b>
1	Verify scope of construction project and stakeholders' requirements	
2	Determine stages and processes in construction project delivery	
3	Obtain project requirements	
4	Prepare project correspondences and documentation	
5	Produce drawings from initial design	
6	Set up BIM project	
7	Produce and develop BIM model and building components	
8	Prepare BIM drawings for building elements and fixtures	
9	Prepare BIM schedule	
10	Collate tender package	
11	Develop federated BIM model	
12	Check as-built drawings	
13	Establish process of regulatory site compliance	
14	Manage TOP and/or CSC process	
<b>Option 1: Consultancy</b>		
15	Produce and Check 3D massing model against design brief and regulations	
16	Produce schematic drawings and 3D model for design proposal	
17	Check schematic drawings compliance to regulations	
18	Produce drawings and documentation required for development control clearance	
19	Prepare necessary documentation for URA requirements	
20	Prepare building plan documentation for regulatory agencies	
<b>Or Option 2: Construction</b>		
15	Verify implementation of WSH at work site	

S/N	List of Competencies (Standard)	Company to indicate '✓' for OJT competencies it can provide
16	Monitor site progress	
17	Coordinate BIM models for construction	
18	Simulate BIM model	
19	Establish process of site inspection	
20	Coordinate construction activities	
	<b>Sub-total of Competencies (Standard)</b>	
<b>List of Competencies (Company-specific)</b>		
1		
2		
3		
4		
5		
	<b>Sub-total of Competencies (Company-specific)</b>	

**Note:**

- a) Company must be able to provide OJT for at least **75%** of the List of Competencies (Standard).
- b) If company is unable to meet the 75%, please propose alternate **course-related** competencies which are unique to company operations. Alternate competencies are capped at 25%.  
[i.e. 50% of the list of competencies (standard) + 25% alternate competencies (Company-specific)].
- c) All alternate competencies (Company-specific) must be reviewed and endorsed by ITE.
- d) Trainees must receive OJT and be assessed for **All** competencies selected in this List.

Total no. of competencies selected by company for OJT

Total no. of competencies listed (*standard & company specific*)

Percentage of selected competencies


**Completed By:**

\_\_\_\_\_

**Name**

\_\_\_\_\_

**Company**

# MODULE SYNOPSIS – WSDip in Architectural BIM & Design

## Course Objective

This course equips trainees with the essential skills, knowledge, and professional attributes to assist in architectural design and develop architectural drawings that comply with design and regulatory requirements using Building Information Modelling (BIM) software. Additionally, trainees will be trained to coordinate with relevant authorities and collaborate effectively with stakeholders throughout the various phases of architectural design and construction projects.

## Modules Synopsis

### **Construction Project Preliminaries**

On completion of this module, trainees should be able to verify the scope of construction works and identify key stakeholders involved in construction projects, including determining various stages of construction projects and collate project requirements with all relevant standards and regulations.

### **Site Operations & Management**

On completion of this module, trainees should be able to support implementation of WSH at work site, prepare project correspondences and documentation, and check risk assessment plan.

### **Architectural Design Fundamentals**

On completion of the module, trainees should be able to prepare the required drawings and 3D massing model based on the initial design proposed by the architectural office for design presentation to client. He/she will also be required to check that the drawings is in compliance to design brief and regulations.

### **Building Information Modelling**

On completion of the module, trainees should be able to effectively apply BIM methodologies to set up BIM projects according to real-world scenarios with the production of relevant building components to develop BIM model and produce drawings for future communication and coordination.

### **Schematic Design**

On completion of the module, trainees should be able to produce design drawings and develop parametric BIM model to a suitable level of detail that can be used for design presentation, consultants' coordination and also further developed for submission to the relevant authorities at various stages of project. He/she will also be required to check that the design complies with regulatory requirements.

### **Design Gateway**

On completion of the module, trainees should be able to produce required drawings and develop BIM model to sufficient level of detail required for Design Gateway submissions, while ensuring that the design complies with regulatory requirements. He/she will also be equipped to prepare necessary documentation for Design Gateway clearance.

### **Construction Gateway**

On completion of the module, trainees should be able to produce required drawings and develop BIM model to sufficient level of detail required for Construction Gateway submissions while ensuring that the design complies with regulatory requirements. He/she will also be equipped to prepare necessary documentation for Construction Gateway clearances.

## MODULE SYNOPSIS – WSDip in Architectural BIM & Design

### Tender Drawings

On completion of the module, trainees should be able to produce a complete set of architectural tender package incorporating all required drawings, details, technical specifications and documentation necessary to enable pricing of products and services and calling of tender for an architectural project.

### Digital Construction

On completion of the module, trainees should be able to integrate building services and structural systems with the architectural design using BIM modelling. They should be able to perform multi-disciplinary coordination and clash detection by performing simulations using BIM software and VR technology.

### Architectural Project Coordination

On completion of this module, trainees should be able to support timely project delivery, site inspection, check as-built drawings for documentation and handover.

### Completion Gateway

On completion of the module, trainees should be able to produce documentations for regulatory inspections and submissions to obtain clearances required for occupancy from relevant authorities.


### Company Project

On completion of the module, trainees should have applied their acquired competencies in an authentic project that would value-add to the company.

# TRAINING PATTERN SCHEDULE

## WSDip in Architectural BIM & Design

Day Release - Trainees attend 1 to 2 days of lessons per week at ITE, with the remaining work-week spent at the workplace for On-the-Job Training.

<b>April'26 Intake</b>	<b>April – June 2026</b>	ITE Vacation (June) 4 weeks	<b>July – September 2026</b>	ITE Vacation (Sept) 2 weeks	<b>October – December 2026</b>	ITE Vacation (Dec) 4 weeks	<b>January – March 2027</b>	ITE Vacation (March) 2 weeks
<b>1<sup>st</sup> Year Off-JT @ ITE</b>	<b>1 day/week</b>		<b>1 day/week</b>		<b>1 day/week</b>		<b>1 day/week</b>	
<b>April'26 Intake</b>	<b>April – June 2027</b>	ITE Vacation (June) 4 weeks	<b>July – September 2027</b>	ITE Vacation (Sept) 2 weeks	<b>October – December 2027</b>	ITE Vacation (Dec) 4 weeks	<b>October – December 2028</b>	ITE Vacation (March) 2 weeks
<b>2<sup>nd</sup> Year Off-JT @ ITE</b>	<b>1 day/week</b>		<b>1 day/week</b>		<b>1 day/week</b>		<b>1 day/week</b>	
<b>April'26 Intake</b>	<b>April – June 2028</b>	ITE Vacation (June) 4 weeks	<b>July – September 2028</b>	ITE Vacation (Sept) 2 weeks	<b>WSDip Programme 2026</b> <b>Start: 1 April 2026</b> <b>End: 30 September 2028</b> <b>Duration: 2.5 years</b>  <b>Final results release may be later than programme end date</b>			
<b>3<sup>rd</sup> Year Off-JT @ ITE</b>	<b>1 day/week</b>		<b>1 day/week</b>					