





## BAMD / BAME

## Certificate in Building Information Modelling (BIM) – Asset Management for EMSD Projects

建築信息模擬資產管理(機電工程署工程)證書

To train up practitioners with the capabilities of using BIM-enabled software to manage the asset data for the Electrical and Mechanical Services Department (EMSD) projects in accordance with the latest "Building Information Modelling for Asset Management (BIM-AM) Standards and Guidelines"

根據最新的「建築信息模擬-資產管理(BIM-AM)標準及指引」對從業人員進行培訓,使其具有使用BIM的軟件來管理機電工程署(EMSD)項目資產資料的能力。

	BAMD	BAME			
Lecturer	Professionals				
講師	專業人士				
Medium of	Cantonese supplemented with English technical terms				
Instruction 授課語言	廣東話輔以英文技術用語				
Mode of Attendance	Part-time day course 日間部份時間制:	引制: Part-time evening 夜間部份時間制: 19:00-22:00			
授課形式	09:00 to 18:00				
Duration	8 hours x 3 sessions	3 hours x 8 sessions			
授課期 Admission	8小時 x 3堂	3小時 x 8堂			
Requirements 入學條件	related industry; or (ii) Holder of Higher Diploma in building/ arc engineering/ quantity surveying, or qualification; or (iii) Technician Trainee under the EMSD Te  必須具備基本的BIM知識;以及 (i) 不少於1年建造或機電工程經驗;或 (ii) 擁有與建造/建築/結構工程/機械/電機工上學歷;或 (iii) 屬機電工程署技術員訓練計劃的學員。	Holder of Higher Diploma in building/ architectural studies, or structural/ mechanical/ electrical engineering/ quantity surveying, or other construction-related discipline; or equivalent qualification; or Technician Trainee under the EMSD Technician Training Scheme.  [項具備基本的BIM知識;以及 不少於1年建造或機電工程經驗;或 擁有與建造/建築/結構工程/機械/電機工程/工料測量或任何與建造業相關學科的高級文憑或以上學歷;或 屬機電工程署技術員訓練計劃的學員。			
Award of Certificate 證書頒發	Completion certificate - Attended 21 hours or above and passed the examination 結業證書 - 出席課程21小時或以上及考試合格				
Venue	HKIC Kowloon Bay Campus, 44 Tai Yip Stre	et, Kowloon Bay, Kowloon			
上課地點	九龍 九龍灣大業街 44 號香港建造學院九龍灣院校				
Course Fee 課程費用	\$2,740.00				
Enquiry 查詢課程	2100 9000 / 2100 9526				
Application Method 報名方法	Please apply online on <u>SPDC portal</u> 請透過建造專業進修院校的網上報名系統報	名			





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	irse Content 內容			
1.	User Interface and	Discover the REVIT environment and setting, the skill of navigating and operating in BIM system.		
	Basic Operation			
	·	1.1 Difference between BIM and CAD		
		1.2 Revit interface		
		1.3 Terms used in REVIT		
		1.4 Mouse navigation & selection		
		1.5 View Cube		
		1.6 Ribbon, Project Browser & Properties Panel		
		1.7 Basic Draw and modify		
		1.8 Levels		
		1.9 Grids		
		1.10 Project Base Points and Survey Points		
2.	Overview of MEP	Recognise the HVAC system.		
	Settings - 1	2.1 HVAC Systems		
		2.2 Air Terminal		
		2.3 Mechanical Equipment		
		2.4 Add and Modify Ducts		
3.	Overview of MEP	Recognise the plumbing and FS systems.		
	Settings - 2	3.1 Piping/ FS Systems		
		3.2 Plumbing Fixture		
		3.3 Pipes		
	0 : (1455	3.4 Modifying Plumbing pipe systems		
4.	Overview of MEP	Recognise the electrical system.		
	Settings - 3	4.1 Electrical Systems		
		4.2 Wiring		
		4.3 Cable Track & Conduit		
		4.4 Panel Schedule for Distribution board		
4.5 Trunking 5. View and Create views and compose schedules f.		Create views and compose schedules from BIM model and set up drawing sheets.		
5.	Documentation	5.1 Plan/ Elevation/ Section.		
	Documentation	5.2 3D Views		
		5.3 Sheets		
		5.4 Tags		
		5.5 Annotations and Dimensions		
		5.6 Schedules per individual equipment		
		5.7 Presentation Style		
6.	Collaboration	Appraise the multi-discipline coordination and work sharing system in BIM.		
٠.		6.1 Link model with Copy and monitor		
		6.2 Work sharing by using Workset		
7.	Introduction of	Understand the EMSD BIM-AM standards and guidelines.		
	EMSD BIM-AM	7.1 EMSD BIM-AM Standards and Guidelines (requirement of modelling; as:		
	system	information; system information)		
	•	7.2 Object Creation Guidelines (LOD requirement; demonstration of object creati		
		with Creation of LV switchboard and switchgear as an example)		
		7.3 Model & Object Naming Convention and Category		
		7.4 Asset Code and Zone Code		
		7.5 Creation of Zone in model and Zone Tags		
		7.6 Coding Requirement of Asset Tag and Zone Tag		
		7.7 Concept of Shared Parameters in BIM and EMSD standard Shared Parameter		
		file		
8.	EMSD	Examine and manage the asset information.		
	Standardised MEP	8.1 EMSD Standardised MEP Asset Data templates (21+)		
	Asset Data	8.2 Manage shared parameters		
		8.3 Asset Information Management Platform (AIMP) through COBieLite (control		
		asset information and document; MEP asset in asset management)		
		8.4 Upload of Corporate Computer System (CCS) spreadsheet for objects r		
		drawn in models		
		8.5 Asset relationship and Upload of file (Excel Template)		
		8.6 Preparation of O&M document (folder structure) and upload of document		





9.	Interfacing/	Practice on Verification of BIM Models.		
	Integrating BIM-	Laser scanning for BIM model construction	to existing buildings	
	AM System with	Verification of BIM Model by 360 spherical p	photos	
	other systems - 1			
10.	Interfacing/	Practice on BIM-AM System with RFID.		
	Integrating BIM-	0.1 RFID tags and QR code tags Installation procedures		
	AM System with	.2 Types and requirements of tagging to MEP	equipment	
	other systems - 2	.3 Method of RFID tag encoding (ASCII – Hex	adecimal code)	
		.4 General guidelines for RFID tag installation		
		.5 Demonstration on EMSD BIM-AM System (	remote monitoring & diagnosis;	
		encode RFID tags; export COBieLite to BIN	I-AIM platform)	
11.	11. Overview of Differentiate the REVIT families and manage shared paral		l parameters.	
	Families	.1 Systems Families		
		.2 Component Families		
		.3 In Place Families		
		.4 Shared Project Parameters		
		.5 EMSD Asset data Template (ADT) & GUID	file	
		.6 EMSD Standard Shared Parameters (Type	and Instance)	
12.	Introduction of	Implement the EMSD BIM-AM System.		
	BIM-AM system	.1 User interface of BIM-AM Systems - Applica	ation and web based	
	operation	.2 Workflow of BIM-AM implementation in new	and A&A projects	
13.	Summary	Conclude the key aspects of collaboration in BIM-AM project.		
14.	Assessment	Assess the knowledge and skills of BIM-AM in REVIT environment.		