





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	廣東話輔以英文技術用語		
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Attendance	Part-time day course 日间部份时间制,	Part-ume evening 夜间部伤时间间 ·	
授課形式	09.00 10 10.00	13.00-22.00	
Duration	8 hours x 3 sessions	3 hours x 8 sessions	
授課期	8小時 x3堂	3小時 x8堂	
Admission	Have basic BIM knowledge; AND (i) At least one year of work experience in construction or electrical & mechanical engineering or		
Requirements			
入学條件	related industry; or		
	(ii) Holder of Higher Diploma in building/ arch	itectural studies, or structural/ mechanical/ electrical	
	engineering/ quantity surveying, or oth	ner construction-related discipline; or equivalent	
	qualification; or	··· T ··· O ·	
	(III) Technician Trainee under the EMSD Tech	nnician Training Scheme.	
	送須目借其太的 BIM 知識・NB		
	(i) 不小於1年建造武機雷工程經驗: 武		
	(i) 擁有與建浩/建築/結構工程/機械/雷機工程	/丁料測量或任何與建造業相關學科的高級文馮或以	
	上學歷;或		
	(iii) 屬機電工程署技術員訓練計劃的學員。		
Award of	Completion certificate - Attended 21 hours or above and passed the examination		
Certificate	結業證書 - 出席課程21小時或以上及考試合格		
證書頒發			
Venue	HKIC Kowloon Bay Campus, 44 Tai Yip Street, 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	\$2,660.00		
課程費用			
Enquiry	2100 9000 / 2100 9526		
查詢課程			
Application	Please apply online on SPDC portal		
	請透過建造專業進修院校的網上報名系統報名		
報名万法		1 202021/4	



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1.User Interface and Basic OperationDiscover the REVIT environment and setting, the skill of navigating BIM system.1.1Difference between BIM and CAD	and operating in
Basic Operation Bit system. 1.1 Difference between BIM and CAD	
1.2 Revit interface	
1.3 Terms used in REV/IT	
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 5.1 Piping/ F5 Systems	
3.2 Fluitibility Fixture	
3.0 Fipes	
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 from BIM model and set up d	lrawing sheets.
Documentation 5.1 Plan/ Elevation/ Section.	
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	in DIM
6. Collaboration Appraise the multi-discipline coordination and work sharing system i	IN BIM.
6.2 Work sharing by using Workset	
7 Introduction of Understand the EMSD BIM-AM standards and guidelines	
FMSD BIM-AM 7.1 FMSD BIM-AM Standards and Guidelines (requirement of	of modelling, asset
system information: system information)	in modeling, debet
7.2 Object Creation Guidelines (LOD requirement: demonstratic	on of object creation
with Creation of LV switchboard and switchgear as an exan	nple)
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 Parameters
o. Examinine and manage the asset information. Standardised MED 8.1 EMSD Standardised MED Asset Data templates (21.1)	
Asset Data 8.2 Manage shared narameters	
Asset Data 0.2 Ivialiaye sildlet parallelets 8.3 Asset Information Management Diatform (AIMD) through C	OBiel ite (control of
asset information and document: MEP asset in asset mana	
	eet for objects not
8.4 Upload of Corporate Computer System (CCS) spreadship	
8.4 Upload of Corporate Computer System (CCS) spreadsho drawn in models	eet for objects not
 8.4 Upload of Corporate Computer System (CCS) spreadshord drawn in models 8.5 Asset relationship and Upload of file (Excel Template) 	



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9.	Interfacing/	Practice on Verification of BIM Models.
	Integrating BIM-	9.1 Laser scanning for BIM model construction to existing buildings
	AM System with	9.2 Verification of BIM Model by 360 spherical photos
	other systems - 1	
10.	Interfacing/	Practice on BIM-AM System with RFID.
	Integrating BIM-	10.1 RFID tags and QR code tags Installation procedures
	AM System with	10.2 Types and requirements of tagging to MEP equipment
	other systems - 2	10.3 Method of RFID tag encoding (ASCII – Hexadecimal code)
		10.4 General guidelines for RFID tag installation
		10.5 Demonstration on EMSD BIM-AM System (remote monitoring & diagnosis;
		encode RFID tags; export COBieLite to BIM-AIM platform)
11. Overview of Differentiate the REVIT families and manage shared parameters.		Differentiate the REVIT families and manage shared parameters.
	Families	11.1 Systems Families
		11.2 Component Families
		11.3 In Place Families
		11.4 Shared Project Parameters
		11.5 EMSD Asset data Template (ADT) & GUID file
		11.6 EMSD Standard Shared Parameters (Type and Instance)
12.	Introduction of Implement the EMSD BIM-AM System.	
	BIM-AM system	12.1 User interface of BIM-AM Systems - Application and web based
	operation	12.2 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.

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