

BFSD / BFSE

Certificate in Building Information Modelling (BIM) - Fire Service with Revit

建築信息模擬消防證書課程 – Revit

本課程旨在培訓業界從業員掌握消防系統的建築信息模擬技術，並能運用 Revit 建立詳細的消防系統3D模型。

This programme aims to train industry practitioners to apply a wide variety of fire service BIM modelling skills to create detailed 3D model of the fire service systems in Revit.

	<u>BFSD</u>	<u>BFSE</u>
Lecturer 講師	Professionals 專業人士	
Medium of Instruction 授課語言	Cantonese supplemented with English technical terms 廣東話輔以英文詞彙	
Mode of Attendance 授課形式	Part-time day course 日間部份時間制： 09:00-16:30	Part-time evening 夜間部份時間制： 19:00 - 22:00 (Lesson 1 - 10) (第一至十堂) 19:00 - 21:30 (Lesson 11) (第十一堂)
Duration 授課期	6.5 hours x 5 sessions 6.5小時 x 5 堂	3 hours x 10 sessions & 2.5 hours x 1 session 3小時 x 10堂 及 2.5小時 x 1堂
Award of Certificate 證書頒發	Completion Certificate 1. Achieved 90% attendance; and 2. Pass all assessments (Passing mark is 50%). 結業證書 1. 整體課程出席率達90%或以上；及 2. 通過課程評核，並於所有課程評核取得合格 (50%) 成績。	
Venue 上課地點	HKIC Kowloon Bay Campus, 44 Tai Yip Street, Kowloon Bay, Kowloon 九龍 九龍灣大業街 44 號香港建造學院九龍灣院校	
Admission Requirements 入學條件	1. Completion of a BIM software / platform training course at operation level as recognised by CIC or possession of any certification of BIM software at operation level issued by respective software developers; and 2. At least one year of work experience in fire service industry. 1. 曾修畢至少一個建造業議會認可的建築信息模擬軟件課程，或持有任何由軟件開發商頒發的建築信息模擬軟件課程證書；以及 2. 具備最少一年與消防相關的工作經驗。	
Course Fee 課程費用	\$2,960.00	
Enquiry 查詢課程	2100 9000 / 2100 9891	
Application Method 報名方法	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	

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Course Content 課程內容

1. General Setting

- Introduction of BIM Standards (including CIC's publications)
- Coordinate System Setting (Survey / Project Point)
- Mechanical Setting (Pipe Type / Size / Segment / Angles)
- Linking Model Method
- MEP Filter Setup
- MEP Template Setup
- View Range Setup
- Project Standard Transfer
- Copy and Monitor Method
- Introduction of Navisworks

2. Family Creation

- Create the Family (Pump)
- Modifying Existing Families (Sprinklers, Nozzles, Smoke Detectors, Valves, Alarm Panels, Tank)
- Jointing Method Coupling / Flange / Thread
- Download Family from Online Library Source (including CIC BIM Object Library)

3. Sprinkler / Fire Hydrant System

- Understand HK FSD Requirements (BS EN12845:2015 & COP 2022)
- Introduction Schematic Sample for Sprinkler & FH / HR System
- Pipe Routing Preferences
- Mechanical Settings
- Sprinkler Head Placement
- Pipe Modelling (Main Risers & Branch Lines)
- Create Sprinkler Pipework Under Staircase
- Valves & Accessories Placement
- Create Beam, Wall and Slab Opening

4. Automatic Fire Alarm (AFA) System & Portable Extinguisher

- Introduction of Fire Alarm System & AFA System (BS 5839:2017 & COP 2022)
- Adding Fire Alarm Devices
- Adding Fire Alarm Panel (Electrical)
- Create Fire Alarm System and Complete Wiring
- Handling Circuit with Fire Alarm Panel

5. Fire Service Room Modelling

- Understand HK FSD Requirements (BS EN12845:2015 & COP 2022)
- FS Equipment's Placement (FS Sprinkler Pump / Jockey Pump / Pump Control Panel / FS Water Tank)
- Using Interference Check for Spacing Requirement (Access / Maintenance) Against FSD Requirement

6. Drawing Production

- Creating Sheet and Title Block
- View Control Setup
- 2D Drafting Tools
- Tagging Item Method
- Marking and Controlling Revisions
- Export to 2D Drawing Settings (Such as linetype, colour, line style, etc.)

7. Hands-on Exercise in Hong Kong Project

- Practical Project Modelling Practice
- Layout Drawing Generation
- Detail Drawing Generation (Fire Pump Room)
- Builder's Work Drawing Generation (Beam / Wall Opening)

8. Quantity Take - Off

- Create Pipe & Pipe Fitting Schedule
- Create Share / Project Parameter for FS Equipment
- Creating Fire Protection Schedules
- Use Key Schedule and Space Schedule to Checking Sprinkler Requirement

9. Fire Service Design & Calculation (Plug-in / Dynamo Demonstration)

- Sprinkler Design & Modeling
- Sprinkler System-Calculation

10. MEP Fabrication Parts

- Introduction MiMEP
- Reserve Steelframe Size for the Common MiMEP
- MiMEP Modelling (Pipe / Fitting / Valve / Hanger)
- Fabrication Parts

11. Examination

- Assess The Knowledge and Skills of Fire Service in BIM (Revit)