

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 廣東話輔以英文技術用語 Only English version of the course materials and computer software is used for teaching in class 本課堂以英文版本的教材及電腦軟件教學 Only English versions of assignments and examination papers will be used for assessment in class. 本課堂採用英文版本習作及考試卷作評核	
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。	
Re-Exam 補考	The course offers only one re-exam opportunity. The fee for the re-exam is HK\$100. 課程僅提供一次補考機會，補考費用為港幣\$100元	
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	<u>BFSD / BFSE</u> Please submit your online application through the course website. 請透過課程網站提交網上申請。	

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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)