

CAEU Approved CPD Activities

澳門政府 建築、工程及城市規劃專業委員會批核持續進修活動認可名單

	項目	活動認可編號	活動日期	持續進修活動認可名單	認可時數	機電工程	電機工程	機械工程	消防工程	多範疇內容
2016-2017	1	1	174/FC/2017	23 March 2016	Theoretical Course on Building Management System for Modern Buildings 現代化屋宇設施管理系統理論課程	5.5	✓		✓	
	2	2	399/FC/2017	21 November 2016	室內環境之健康舒適和生產力及樓宇內嵌入式輻射加熱和冷卻之應用	2	✓		✓	
	3	3	183/FC/2017	6 April 2017	高層樓宇、超高層高宇和摩天建築物之樓宇系統設計研討會	3.5	✓	✓	✓	
2017-2018	1	4	63/FC/2018	9 March 2018	Joint Symposium on BIM (Building Information Modelling), Energy Efficiency and Effectiveness to Facilities Management BIM (建築信息模型) 設施管理的能源效益及有效性聯合研討會	3				✓
	2	5	116/FC/2018	23 April 2018	Building Energy Quotient (bEQ) on Improving Facilities Performance Global Sustainability Give Back Week 提高設施效能的建築能源商數 (bEQ) 全球可持續性回饋週研討會	3	✓	✓	✓	
	3	6	198/FC/2018	20 June 2018	Target Settings and Classification of Building Energy Use and Urban Microclimate Design to Mitigate the Adverse Impact of Climate Change & Commissioning in Building Operations and Maintenance : Introduction to MBCx 建築能源使用和城市小氣候設計的目標設置和分類, 以減輕變化的不利影響 & 建築營運和維護調試: MBCx 簡介	3	✓	✓	✓	
2018-2019	1	7	265/FC/2018	11 December 2018	New Generation Centrifugal Chiller using Low GWP Refrigerants, Beyond Refrigerants & Magnetic Centrifugal Chiller Unit 引進使用新一代低GWP制冷劑的離心式冷水機組、超越制冷劑 及 磁懸浮式冰水主機	3	✓	✓		
	2	8	45/FC/2019	5 January 2019	Technical Visit to Dongguan TECH FREE Air Conditioning & Mfy, Ltd. 技術參觀 - 東莞駿科空調製造有限公司	3	✓	✓		
	3	9	46/FC/2019	23 March 2019	Technical Visit to The District Cooling System (DCS) at Kai Tak Development (KTD) of Hong Kong 技術參觀 - 香港啟德發展區區域供冷系統	3	✓	✓		
	4	10	91/FC/2019	15 April 2019	Building Re-invented, Big Data Analytics and Machine Learning in Buildings Management, Facilities Management of a Destination Resort : The Macao Fisherman's Wharf 建築物再造, 建築管理之大數據分析及機械學習 及 典型度假村的物業設施管理: 澳門漁人碼頭	3				✓
	5	11	229/FC/2019	14 June 2019	Thermal Energy Storage & LEED, Next Generation Refrigerant – R32 Performance, Refrigerant Selection for Next-Gen Chillers, The Challenges of Retro-Commissioning 熱能儲存及LEED, 下一代冷媒 - R32的特性, 新一代冷水機組的製冷劑研發經驗分享, 既有建築重新校驗的挑戰	3	✓	✓		
2019-2020	1	12	274/FC/2019	31 August 2019	Technical Visit to AHU Manufacturing Factory at Dongguan 技術參觀 - 空氣處理機組生產廠房 (東莞)	3	✓	✓	✓	
				24 October 2019	Sustainability Development on Water Treatment 可持續發展 - 水處理					
	2	13	318/FC/2019	15 to 17 Oct 2019	Technical Visit to Absorption and Oil Free Chiller Factory in Changsha 技術參觀 - 吸收式冷水及無油冷水機組生產廠房 (長沙)	6	✓	✓	✓	
	3	14	314/FC/2019	9 December 2019	Fire Engineering Design Application in Macau 消防安全工程學設計在澳門的應用	3	✓	✓	✓	
	4	15	474/FC/2019	15 to 21 Dec 2019	Technical Visit - Energy Saving Related Production Line and Facility (Japan) 技術參觀 - 節能相關的生產線和設施 (日本)	25				✓
2020-2021	5	16	313/FC/2019	18 January 2020	Technical Visit to Calorifer and PHE Manufacturing Factory in Dongguan 技術參觀 - 承壓儲水缸及板式熱交換器生產廠房 (東莞)	4	✓	✓	✓	
	1	17	205/FC/2020	11 September 2020	Healthcare Engineering Systems to Reduce Transmission of Airborne Infectious Diseases The New Normal for Green Building Design, Operation and Management in Post COVID-19 Era Post-Pandemic: Buildings Reopening Readiness and How to Benefit from Data Analytic System 應用醫療工程系統減少空氣傳染病的傳播 應對後COVID-19綠色建築設計、運營和管理的新常態 疫情之後: 建築物重新開放準備和如何從數據分析系統中獲益	3				✓
	2	18	153/FC/2020	19 September 2020	Training Course : Air Conditioning System – VRV System Detail Design and Application 培訓課程 : 空調系統 - VRV系統深度設計及應用	7	✓	✓	✓	
	3	19	144/FC/2020	24 September 2020	Training Course : Air Conditioning System - New Environmentally Friendly Refrigerant R32 Features and Important Installation Requirement 培訓課程 : 空調系統 - 新環保製冷劑R32的特性介紹及安裝重點	3	✓	✓	✓	
	4	20	154/FC/2020	14 November 2020 21 November 2020 9 January 2021	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering - Centrifugal Chiller Design and Application 培訓課程: 供暖、通風及空調工程專題 - 離心式冷水機組的設計與應用	3	✓	✓	✓	
	5	21	155/FC/2020	14 November 2020 21 November 2020 9 January 2021	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering - Chiller Plant Design and Optimization 培訓課程: 供暖、通風及空調工程專題 - 冷水機房設計佈局與優化	3	✓	✓	✓	
	6	22	156/FC/2020	22 November 2020 28 November 2020 16 January 2021	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering - Control System for Engineers (Part 1) 培訓課程: 供暖、通風及空調工程專題 - 工程師需認知的控制系統 (第1部分)	3	✓	✓	✓	
	7	23	157/FC/2020	22 November 2020 28 November 2020 16 January 2021	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering - Control System for Engineers (Part 2) 培訓課程: 供暖、通風及空調工程專題 - 工程師需認知的控制系統 (第2部分)	3	✓	✓	✓	
	8	24	139/FC/2020	29 November 2020 5 December 2020 3 January 2021	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering - Air Side Equipment 培訓課程: 供暖、通風及空調工程專題 - 空氣系統設備	3	✓	✓	✓	
	9	25	141/FC/2020	29 November 2020 5 December 2020 3 January 2021	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering - Water Side Equipment 培訓課程: 供暖、通風及空調工程專題 - 水系統設備	3	✓	✓	✓	
	10	26	145/FC/2020	6 December 2020 12 December 2020 23 January 2021	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering - Noise and Vibration Control for Engineers (Part 1) 培訓課程: 供暖、通風及空調工程專題 - 工程師需認知的噪聲和振動控制 (第1部分)	3	✓	✓	✓	
	11	27	147/FC/2020	6 December 2020 12 December 2020 23 January 2021	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering - Noise and Vibration Control for Engineers (Part 2) 培訓課程: 供暖、通風及空調工程專題 - 工程師需認知的噪聲和振動控制 (第2部分)	3	✓	✓	✓	
	12	28	143/FC/2020	13 December 2020 31 January 2021	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering – Space Air Diffusion 培訓課程: 供暖、通風及空調工程專題 - 空間空氣擴散	4	✓	✓	✓	
2020-2021	13	29	348/FC/2020	19 January 2021	Pandemic Rescue – China Assembled Building Technology for Korea Seoul "National University Hospital" Fight Against Pandemic - Critical Means of Air Filtration and Cleaning to Improve Air Quality in Buildings The United Nations calls District Cooling a "Secret Weapon" in the Battle against Climate Change Absorption Chiller Application in District Energy System 疫情營救 - 中國組裝式建築技術建造南韓首爾“火神山醫院” 對抗疫情 - 改善建築物內空氣品質的關鍵性空氣過濾和清潔手段 聯合國稱區域供冷是與氣候變化作戰的“秘密武器” 吸收式空調技術在區域能源系統的應用	3.5	✓		✓	

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2020-2021	14 30 215/FC/2020	3 April 2021	Training Course : Special Topic in Engineering - Water Supply System 培訓課程：工程專題 - 供水系統	3	✓	✓	✓		
	15 31 148/FC/2020	3 April 2021	Training Course : Special Topic in Engineering - Drainage System 培訓課程：工程專題 - 排水系統	3					土木
	16 32 343/FC/2020	10 April 2021	Training Course : Special Topic in Engineering - Fire Suppression & Fire Alarm Systems 培訓課程：工程專題 - 滅火和火警系統	3				✓	
	17 33 350/FC/2020	10 April 2021	Training Course : Special Topic in Engineering - Passive Fire Safety Protection, Smoke Management System 培訓課程：工程專題 - 被動消防安全保護，煙霧管理系統	3				✓	
	18 34 346/FC/2020	17 April 2021	Training Course : Special Topic in Engineering – Electrical Low Voltage Switchboard and Earthing 培訓課程：工程專題 - 低壓配電櫃和接地	3	✓	✓			
	19 35 349/FC/2020	17 April 2021	Training Course : Special Topic in Engineering - Introduction to Electrical Medium Voltage System 培訓課程：工程專題 - 電力中壓系統簡介	3	✓	✓			
	20 36 206/FC/2020	24 April 2021	Training Course: Special Topic in Engineering - Lamp and Lighting for Engineers (Part 1) 培訓課程：工程專題 - 工程師需認知的燈和燈具（第1部分）	3	✓	✓			
	21 37 341/FC/2020	24 April 2021	Training Course: Special Topic in Engineering - Motor, Variable Speed Drives, Harmonics and Uninterruptible Power Supply 培訓課程：工程專題 - 馬達，變速驅動器，諧波和不間斷電源	4	✓	✓	✓		
	22 38 33/FC/2021	8 May 2021	Training Course : Fire Engineering - Fundamental and Application 培訓課程：消防安全工程 - 理論及應用	7	✓	✓	✓	✓	
	23 39 67/FC/2021	15 May 2021	Training Course : Stepping into the New Era of Modular Integrated Construction (MiC) 培訓課程：進入「組裝合成」建築法 (MiC) 的新時代	3					✓
	24 40 172/FC/2021	15 May 2021	Special Topic in Smart City – Block Chain Technology 智慧城市專題 - 區塊鏈技術	2					✓
	25 41 292/FC/2021	15 May 2021	Young Engineer and Student Technical Visit - Wynn Palace Cotai 青年工程師及學生技術參觀 - 永利皇宮	2.5					✓
	26 42 08/FC/2021	29 May 2021	Training Course : Special Topic in Engineering - Planning of Vertical Transportation (Lift) Inside Buildings 建築物內部垂直運輸（電梯）的規劃	4	✓	✓	✓		建築
2021-2022	27 43 132/FC/2021	29 May 2021	Technical Talk: Keys Steps to Realize New 'Normal' Healthy Building - From Passive Design to Big Data Driven Approach 技術講座：實踐“新常態”健康建築的關鍵步驟：從被動式設計到大數據主導的解決方案	3	✓	✓	✓		建築
	1 44 173/FC/2021	11 June 2021	Technical Seminar for Aerospace Technology and Smart City 航天科技及智慧城市技術研討會 Beidou Satellite Positioning and Navigation , Master Plan of Macau Smart City , Macau International Airport Infrastructure Development and Expansion Planning, UAV Application in Engineering Projects 北斗衛星導航定位系統, 探討澳門智慧城市總體規劃, 澳門國際機場基建發展與擴建規劃, 無人機在工程項目中的應用	3					✓
	2 45 141/FC/2021	28 August 2021	Training Course: Special Topic in Engineering - Lift and Escalator inside Buildings (Part 1) 工程專題 - 建築物內升降機及電扶梯（第1部分）	7	✓	✓	✓		建築
	3 46 142/FC/2021	29 August 2021	Training Course: Special Topic in Engineering - Lift and Escalator inside Buildings (Part 2) 工程專題 - 建築物內升降機及電扶梯（第2部分）	7	✓	✓	✓		建築
	4 47 143/FC/2021	4 September 2021	Training Course: Special Topic in Engineering - Lift and Escalator inside Buildings (Part 3) 工程專題 - 建築物內升降機及電扶梯（第3部分）	7	✓	✓	✓		建築
	5 48 144/FC/2021	11 September 2021	Training Course: Special Topic in Engineering - Lift and Escalator inside Buildings (Part 4) 工程專題 - 建築物內升降機及電扶梯（第4部分）	4	✓	✓	✓		建築
	6 49 128/FC/2021	30 October 2021	Training Course - Gas System Design and Safety Analysis (Part 1) General Concepts of Fuel Gas, Technical information and Code Requirements 培訓課程 - 燃氣系統的設計與安全分析（第1部分） 燃氣的一般概念，技術資訊及守則規範	7	✓		✓		化學 工業 燃料
	7 50 156/FC/2021	27 November 2021	Training Course - Gas System Design and Safety Analysis (Part 2) Gas Storage Compounds and Distribution Pipework 培訓課程 - 燃氣系統的設計與安全分析（第2部分） 燃氣儲存庫及供氣管網系統設計	7	✓		✓		化學 工業 燃料
	8 51 155/FC/2021	4 December 2021	Training Course - Gas System Design and Safety Analysis (Part 3) Gas Systems in Domestic and Commercial Premises 培訓課程 - 燃氣系統的設計與安全分析（第3部分） 家庭及商業用戶管道系統	7	✓		✓		化學 工業 燃料
	9 52 140/FC/2021	5 December 2021	Training Course - Gas System Design and Safety Analysis (Part 4) Design for Gas Systems in Hazardous Areas 培訓課程 - 燃氣系統的設計與安全分析（第4部分） 危險區域的燃氣系統設計	7	✓		✓		化學 工業 燃料
	10 53 501/FC/2021	14 December 2021	Macau Smart City Engineering and Construction Technical Seminar 澳門智慧城市工程建設技術研討會	3					✓
	11 54 397/FC/2021	17 December 2021	Young Engineer and Student Technical Visit – CTM TELECENTRO (CTM 5G Network Building, Digital Macau and Smart City Development) 青年工程師及學生技術參觀 - 澳門電訊 電訊綜合大樓 (澳門電訊5G建網工作、數碼澳門及智慧城市發展)	3	✓	✓			
	12 55 107/FC/2022	19 to 22 December 2021	Technical Visit – Sanya Haitang Bay District Cooling System (Hainan Province) 技術參觀 - 三亞海棠灣區域供冷系統(海南省)	13	✓	✓	✓		
	13 56 171/FC/2021	9 April 2022	Training Course - Urban Design and Regional Planning History, Theory and Practice 培訓課程 - 城市設計與區域規劃的歷史，理論與實踐	7					✓
	14 57 90/FC/2022	30 April 2022	Young Engineer and Student Technical Visit – Ka-Ho Oil Terminal 青年工程師及學生技術參觀 - 九澳油庫	3					✓
	15 58 604/FC/2021	7 May 2022	Training Course : Fixed Guideway Transit Passenger Rail Systems - Testing and Commissioning Process and Application 培訓課程：導軌交通客運鐵路系統 - 測試和調試之過程及應用	4					✓
	16 59 CAEU Application Submitted	28 May 2022	Young Engineer and Student Technical Visit – CEM (Coloane Power Station and Lotus Substation) 青年工程師及學生技術參觀 - 澳電（路環發電廠、蓮花變電站）	3					

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17	60	143/FC/2022	4 June 2022	Young Engineer and Student Technical Visit – SAAM Seac Pai Van Water Treatment Plant (Unmanned Treatment Facility Fully Automated with Remote SCADA Supervision, Smart Water Development) 青年工程師及學生技術參觀 - 澳門自來水 石排灣水廠 (無人駐守全自動水處理廠採用遙距SCADA 實時監控，智慧水務發展)	3					✓	
2022-2023	1	61	398/FC/2021	2 July 2022	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering - Advanced VAV System (Part 1) 培訓課程：供暖、通風及空調工程專題 - 進階變風量系統（第1部分）	3	✓	✓	✓		
	2	62	417/FC/2021	2 July 2022	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering - Advanced VAV System (Part 2) 培訓課程：供暖、通風及空調工程專題 - 進階變風量系統（第2部分）	3	✓	✓	✓		
	3	63	142/FC/2022	9 July 2022	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering – Centrifugal Chiller Design and Application 培訓課程：供暖、通風及空調工程專題 - 離心式冷水機組的設計與應用	3	✓	✓	✓		
	4	64	108/FC/2022	9 July 2022	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering – Chiller Plant Design and Optimization 培訓課程：供暖、通風及空調工程專題 - 冷水機房設計佈局與優化	3	✓	✓	✓		
	5	65	140/FC/2022	16 July 2022	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering – Control System for Engineers (Part 1) 培訓課程：供暖、通風及空調工程專題 - 工程師需認知的控制系統（第1部分）	3	✓	✓	✓		
	6	66	109/FC/2022	16 July 2022	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering – Control System for Engineers (Part 2) 培訓課程：供暖、通風及空調工程專題 - 工程師需認知的控制系統（第2部分）	3	✓	✓	✓		
	7	67	113/FC/2022	23 July 2022	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering – Space Air Diffusion 培訓課程：供暖、通風及空調工程專題 - 空間空氣擴散	3	✓	✓	✓		
	8	68	141/FC/2022	23 July 2022	Training Course : Special Topic in Heating, Ventilation and Air Conditioning Engineering – Kitchen Ventilation 培訓課程：供暖、通風及空調工程專題 - 廚房通風	3	✓	✓	✓		
	9	69	570/FC/2021	(To be confirmed)	The Centenary of the Communist Party of China - China Great Engineering Construction Seminar 百年黨慶 - 中國偉大工程研討會 The World's Highest Bridge “The Beipanjiang Bridge”, The Key National Technology Infrastructure Construction “China Sky Eye”, High Voltage Direct Current Transmission and High-power Power Electronic Technology Innovations support The Green Development of Power Supply Network 世界最高橋樑“北盤江第一橋”、國家重大科技基礎設施“中國天眼”、 高壓直流輸電和高功率電力電子技術創新支撐電網綠色發展	3					✓
	10	70	111/FC/2022	(To be confirmed)	The Centenary of the Communist Party of China : Decarbonisation - Vision and Action Seminar 百年黨慶 - 脫炭的願景與行動研討會 Molten Salt Tower Solar Thermal Power Technology and its Carbon Neutral Significance, China Artificial Solar Fusion Technology, Decarbonization in the Built Environment 熔鹽塔式光熱發電技術及其碳中和意義、中國人造太陽核聚變技術、建築環境中的脫碳	3					✓

Year 年度	CPD Course Qty 課程數量	CPD Hours 認可時數
2016 - 2017	3	11
2017 - 2018	3	9
2018 - 2019	5	15
2019 - 2020	5	41
2020 - 2021	27	91
2021 - 2022	17	92
2022 - 2023	8	24
Total 總數：	60	283

Total CPD Hours : 283

Item 59 - CPD Hours not included, waiting for CAEU approval
Item 69 & 70 - CPD Course Qty and CPD Hours not included

- Technical Seminar / Training Course
- Technical Visit