

Half-Day Course on
CONSERVATION OF HISTORIC STEEL STRUCTURES

Organised by

EPC Engineering Consultant Ltd.

Supported by

Hong Kong Institute of Architectural Conservationists (HKICON)

Date: 11 Dec 2025 (Thursday)

Time: 9:00 a.m. for registration to 12:45 p.m.

Venue: Conference Room AC2, Administration Building (Level 4) - Hong Kong Cultural Centre, Tsim Sha Tsui, Kowloon



Introduction:

Structural steel is an excellent building material, with a very high stress to weight ratio. Although the history of iron and steel dates back several hundred years, their use in the main components of building structures is for the past two hundred years. Steel is prone to damage by environmental factors, fire and misuse, yet it offers unique design freedom in the creative building form in modern architecture which also forms an important part in the construction history deserving conservation.

This ½-Day Course outlines the historical use of steel, material properties, strengths and weaknesses of such material in the building structures. Inspection techniques, repair methods to rectify defects, testing and strengthening will be presented. Protection techniques will also be presented together with case studies for the repair of the steel structures.

The course is technical yet only very basic structural principles will be presented and is very practical to suit practicing professionals. This is the rare opportunity for experience sharing with numerous examples based on the speaker's experience in the steel buildings conservation practice in historic buildings.

WHO SHOULD ATTEND: This course has been specifically developed to serve Building professionals including Structural Engineers, Architects, Building Surveyors, Conservationists, Fire Safety Engineers, Property Managers, Regulators, Contractors and Builders working on heritage conservation projects involving historic buildings who need a working knowledge of the steel structures. The course is also suitable for clerk of works, site inspectors, students and graduates who need to acquire the specialist skill of conservation of steel buildings.

Speaker's Profile: Ir Eric P.W. CHAN BSc, MSc, DIC, RPE, MStructE, MHKIE, MICE



Eric has over 40 years of experience in building structures in the United Kingdom and Hong Kong and has more than 10 years' experience working with historic buildings. Eric served as an in-house structural consultant to the Antiquities and Monuments Office during the period 2010 to 2017. Prior to his retirement, Eric was a senior structural engineer of the Heritage Unit in Architectural Services Department (ArchSD). His work in ArchSD included the Yuen Long Theatre, Tsing Yi Complex, Hong Kong Wetland Park and Visitor Centre and many other conservation projects such as Dr. Sun Yat-sen Museum and Yau Ma Tei Theatre. He also worked on the Revitalization Scheme,

Financial Assistant Scheme and other conservation of buildings in Private Partnership participation initiated by the Government of HKSAR.

Eric holds a Masters in Concrete Structures from Imperial College in the UK and a Bachelor of Science in Civil Engineering from the City University of London.

Continuing Professional Development Credits:

The course is considered suitable for ½ CPD-day (3 hours) credits.

* A 'Certificate of Attendance' will be issued to those who attend all sessions.

Course Fee: HK\$650 for HKICON Members, HK\$700 for members of HKIA, HKIE, HKIS, government officials and HK\$800 for others with a special discount for graduates members of the above Institutions and full time students (including course notes, a ½ CPD-day 'Certificate of Attendance'* and tea/coffee during morning break; Lunch is not provided)(Non-refundable)

Enquiries: All enquiries about this course should be made to Ir Eric PW Chan, EPC Engineering Consultant Ltd. Tel/WhatsApp 6176 3658 (Email: epcericchan@gmail.com).

Note: Limited seating is provided at the venue and early registration is highly recommended. EPC reserves the right to return the cheques to Applicants should the number of Applicants exceeds the seating capacity.

Official Language: Cantonese will be used and supplement with English for technical terms. Course notes will be printed in English.

Half-Day Course

CONSERVATION OF HISTORIC STEEL STRUCTURES

Registration Form

(Applications to be received by post on or before 5th December 2025)

Please follow the 2-step registration procedure:

1. Email the completed registration form to Ir Eric PW CHAN (Email:epcericchan@gmail.com) for reservation.
2. Post the completed registration form to EPC Engineering Consultant Ltd., P.O. Box 84193, Hunghom Bay Post Office, Kowloon (to be received on or before 5th December 2025)

Personal Details:

	Surname	Given Name	Name of Company	Member	Phone No.	Email Address
1						
2						
3						
4						
5						

Item	Registration Fee	Total no. of registration	Sub-total
1. Members of HKICON	\$650	_____person(s)	= HK\$_____
2. Members of HKIA, HKIE, HKIS and government officials	\$700	_____person(s)	= HK\$_____
3. Non-members of the above Institutions	\$800	_____person(s)	= HK\$_____
4. Graduate Members & Students**	\$350	_____person(s)	= HK\$_____
Total amount:			HK\$

**Note: Limited seats at special fees on first-come-first-served basis.

I enclose a crossed cheque (no. _____) with a sum of HK\$_____ payable to EPC Engineering Consultant Ltd. for the registration fee of the captioned course.

Signature: _____ Date: _____

CPD Certificate of Attendance: Please tick the appropriate box to indicate your choice:

- ☐ Yes, I/ we would like to have CPD certificate(s).
☐ CPD certificate(s) not required.

Half-Day Course Programme

CONSERVATION OF HISTORIC STEEL STRUCTURES

Venue: Conference Room AC2, Hong Kong Cultural Centre Level 4 of the Administration Building, Tsim Sha Tsui, Kowloon

尖沙咀梳士巴利道香港文化中心行政大樓四樓會議室 AC2

Day & Time	11 December 2025 (Thursday morning)
9:00am-9:15am	Registration
9:15am-10:40am	Historic steel structures, History of iron & steel, Steel properties, Steel corrosion & Protection of steelwork
10:40am-11:00am	Tea Break
11:00am-12:30am	Construction, Fire resistance & protection, Inspection, Defects and repair, Strengthening options, Testing, Conclusions
12:30pm-12:40pm	Q & A
12:40pm-12:45pm	Collection of CPD certificates