



## 國際工程可建性

### Engineering Buildability for International Projects

註：此課程已獲「建築、工程及城市規劃專業委員會」（多範疇內容的補充進修）認可時數 6 小時。

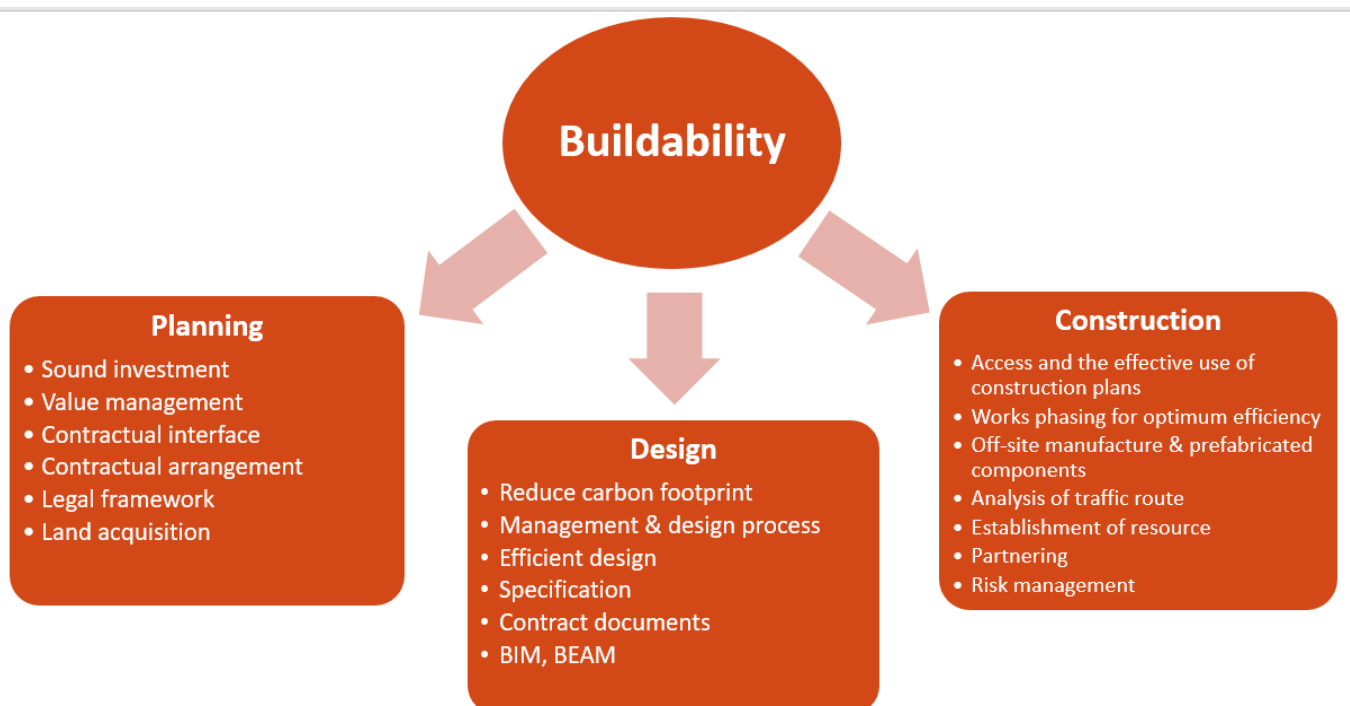
#### 課程簡介 Course Introduction

Buildability is an in-dispensable and integral development of any buildings or infrastructures from design to construction. It is a project management technique to review construction processes from start to finish during pre-construction phase in order to identify obstacles before a project is actually built to reduce or prevent errors, delays and cost over-runs. The term “Buildability” defines the ease and efficiency with which structures can be built. The more buildable a structure is, the more economical it will be. Buildability is in part a reflection of the quality of the design documents; that is, if the design documents are difficult to understand and interpret, the project will be difficult to build and vice versa.

#### 課程大綱 Course Outlines

With the aid of video, the presentation will focus on the following issues:

1. Buildability is a pre-construction exercise that looks at a design from the perspective of those that will manufacture, install components and carry out the construction works. This should not be confused with value engineering though some processes are common to both activities.
2. Assessment of buildability should look into the three elements of the planning, design and construction as illustrated in the chart below in relation to:
  - a. Achieving the desired final quality
  - b. Meeting the programme requirement
  - c. De-risking perceived problems
  - d. Achieving optimum value for money.
3. The constructability of a long span bridge and case study relating to the collapse of a suspension bridge in USA.
4. Case study relating to the collapse of a multi storey residential building in Shanghai



**教學對象 Target Audience** 執業工程師及建築專業人士 Engineers / construction professionals

**導師 Instructor** Instructor with relevant professional qualifications and experience.

**授課語言 Medium of Instruction** To be conducted in English with Cantonese supplementary

**上課地點 Venue** 澳門新口岸宋玉生廣場 335-341 號獲多利中心 11 樓  
Alameda Dr. Carlos D' Assumpção 335-341, Hotline Centre, 11/F, Macau

**上課日期 Course Date & Time**

Class A. 13 <sup>th</sup> Aug 2017	週日 Sun 10:00-13:00 14:00-17:00	課程編號 Course code : S170400081	總課時 6 小時 Total 6 hours
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**課程費用 Tuition Fee** MOP 1,200

**收生名額 Class Size** 30 人

\* 澳門科技大學持續教育學院為英國特許屋宇工程師學會學術合作夥伴。The School of Continuing Studies, MUST is an Academic Affiliate of Chartered Association of Building Engineers (CABE).

**\* 報名注意事項 Enrollment Notes \***

**報名時間：星期一至五(9:00 - 20:00)、星期六(9:00 - 13:00) [公眾假期除外]**

**Operation hours: Monday to Friday (9:00 – 20:00) ; Saturday (9:00 - 13:00) [Close at Public Holidays]**

1. 首次報讀本院短期課程者，請先登入網上報名系統（網址：<https://coes-stud.scs.must.edu.mo/oasc/PersonalInfo.do>）或掃描以下的 QR Code，選擇 **〈工程學和工程行業〉** 類別，預先登記個人資料（不需上傳身份證），填妥資料後，帶備身份證正、副本及相片 1 張至本院辦理報名。

For those who enroll for our courses for the first time, please go to <https://coes-stud.scs.must.edu.mo/oasc/PersonalInfo.do> or scan the QR Code below, choose the category of **〈工程學和工程行業〉**, and input personal information (no need to upload ID copy). After registration online successfully, please come to our school to make payment. You should bring along with your ID card and copy, and a passport size photo.

2. 報讀者可以現金/本票或劃線支票（抬頭請寫“澳門科技大學持續教育學院”或“SCHOOL OF CONTINUING STUDIES MACAU UNIV. OF SCIENCE AND TECHNOLOGY”）繳付學費及材料費，**現金收費上限為澳門幣/港幣 5,000 元。**

Tuition fee and materials fee (if any) should be paid by cash or by cheque/Cashier Order (Please make payable to “SCHOOL OF CONTINUING STUDIES MACAU UNIV. OF SCIENCE AND TECHNOLOGY”). **Cash is accepted for payment of not more than MOP5,000.**

3. 所有費用一經繳交，恕不退還（本院取消開辦該課程除外）或轉讓。  
All payment made is not refundable (except that the course is cancelled by the School) or transferable.

4. 如課程報名人數不足，本院保留課程取消或延期的權利。  
The School reserves the right to cancel or postpone the courses if minimum class size is not reached.



**查詢 Enquiries** Tel: 8796 1807 / 8796 1805 Email: [scs@must.edu.mo](mailto:scs@must.edu.mo)

Website: <http://www.must.edu.mo/scs-tw/diploma-certificate-programs>

持續教育學院致力開拓終身學習機會，如欲收到本學院之課程資料，可發電郵至 [scs@must.edu.mo](mailto:scs@must.edu.mo)，並提供閣下之電郵地址，標題主旨為“加入通知群組”。

The School of Continuing Studies develops life-long learning opportunities. Should you wish to receive information on our programs / courses, please send us an email (to [scs@must.edu.mo](mailto:scs@must.edu.mo)) stating your email address in your email and “Join the mailing list” in the Subject line.

我們亦為機構/政府部門/學校等提供內部培訓，按各機構不同之要求(主題/時間/地點/對象)而訂定培訓內容。請與我們聯絡。

We also offer in-house training for corporations/Government Departments/schools, tailor-made with respect to your choices of topics, time, place, and group of attendees. Please contact us for more information.