

# 澳門科技大學

MACAU UNIVERSITY OF SCIENCE AND TECHNOLOGY

### 持續教育學院

School of Continuing Studies



## **Engineering Buildability for International Projects**

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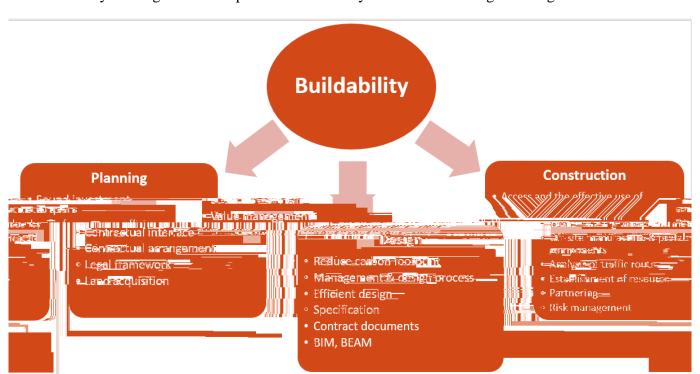
#### **Course Introduction**

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.

### **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



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	Alamed	la Dr. Carlos D' Assur	npção 335-341, Hot	line Centre, 1	1/F, Macau		
	Course Date & Time						
	Tuition Fee M	МОР 1,200			Class Size	30	
*	*			The Scho	ol of Continuing	g Studies,	
M	MUST is an Academic Affilian	te of Chartered Associat	ion of Building Engin	eers (CABE).			
*	* Enrollme	Enrollment Notes *					
	(9:	:00 - 20:00)	(9:00 - 13:00) [	]			
O	Operation hours: Monday	y to Friday (9:00 – 20	:00) ; Saturday (9:	00 - 13:00) [	Close at Publi	c Holidays]	
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	5,000  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.	3.						
	All payment made is not refu	ndable (except that the cor	arse is cancelled by the S	School) or trans	ferable.		

The School reserves the right to cancel or postpone the courses if minimum class size is not reached.

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

Medium of Instruction To be conducted in English with Cantonese supplementary

Engineers / construction professionals

**Target Audience**