

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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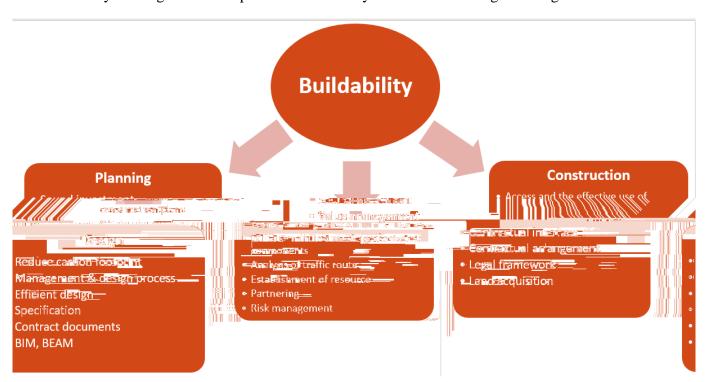
Course Introduction

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



	Instructor Instruc	etor with relevant pro	fessional qualif	fications and e	experience.	
	Medium of I	nstruction To be cor	nducted in Engl	ish with Cant	onese supplementary	
	Venue Alar	meda Dr. Carlos D' A	335-341 Assumpção 335-	11 -341, Hotline	Centre, 11/F, Macau	
	Course Date	& Time				
	Tuition Fee	MOP 1,200			Class Size	30
* MUS	ST is an Academic Af	filiate of Chartered Ass	sociation of Build		The School of Continuin (CABE).	g Studies,
*	Enrollment Notes *					
		(9:00 - 20:00)	(9:00 - 13:] (00]	
Ope	ration hours: Mon	day to Friday (9:00	-20:00); Satu	urday (9:00 -	13:00) [Close at Publ	ic Holidays]
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All payment made is not refundable (except that the course is cancelled by the School) or transferable.

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

Target Audience

Engineers / construction professionals