

編號: E 183 系所: 土木工程學系戊組

科目: 營建管理

一、解釋名詞:(每題 5 分)

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|---------------------|--------------------------|
| 1. Prequalification | 2. Constructability |
| 3. Level of Detail | 4. Partnering |
| 5. Baseline | 6. Construction disputes |

二、問答計算題:

- Please explain the (five or six) steps involved in the construction project planning and scheduling process. (15 分)
- 某進行中工作包含下列四個作業, 請填入下表空格, 各作業及整體的表現如何? (15 分)

Activity	Complete (%)	Budget	BCWS	BCWP	ACWP	SPI	CPI
1. Design	100	131	131		144		
2. Specs		146	132	70			0.8
3. Test	15	100			20	0.5	
4. Release	0	55	0		0	-----	-----
Total							

- The Contractor shall give notice to the Engineer whenever the Works are likely to be delayed or disrupted if any necessary drawing or instruction is not issued to the Contractor within a particular time, which shall be reasonable. The notice shall include details of the necessary drawing or instruction, details of why and by when it should be issued, and details of the nature and amount of the delay or disruption likely to be suffered if it is late. 請說明此段的背景與意義 (20 分)
- 某工程作業資料如下, 假設作業不可分裂, 請畫出網圖, 計算最早與最晚時間、總浮時, 找出要徑。(20 分)

作業	工期	後續作業	關係延時
A	10	B	SS3
		C	FF2
B	8	D	SF4,1
		E	FF5
C	20	G	SS10
D	6	F	FS0
		G	FS4
E	12	F	SS2, FF5
F	14	G	SS3
G	2		