### Schedule Assessment







### **Objective Of Assess Cost**



• To ensure total cost estimate for the whole

project must equal to project's contract sum.

Open project case & guideline document to carry out the assessment process exercises.



### **Assessment - Cost Estimate**



- Cost estimate shall be performed at sub task level
- Total cost estimate for the whole project = project's contract sum
- No cost estimation to milestone and external dependency (unless specified in the contract)



### **Cost Estimate** - To fill contract cost (not contractor cost)



4

### **Assessment – Cost Budgeting**

- To show project financial progress
- To make sure that the financial s-curve was generated from the accepted program
- To assure the followings at high level (Overall Management):-
  - ✓ Logic (10% planned for the 1st half of the project, 90% at 2nd half? – is it acceptable)
  - Workability (Equipment installation at the beginning of project to increase the planned value – can claim more at the beginning of the project)
  - Continuity (Work and Resources were arranged appropriately and logically (follow work contour))
  - Manageable and Track-able







### Understanding S-Curve – Exercise







#### A 100mil project shows the actual

### physical progress of 50% and Client just

### paid the Contractor 32mil.



#### Why? Why different? Not fair... Mostly.... Current practice





#### A project shows the <u>variances</u> for <u>financial</u>

#### progress, physical progress and project finish

#### date were -10%, -15% and +20days

respectively.

Please explain.







9

#### Introduction:-

- Over Day 1 has gone through the checks for a work program from looking at scope right down to cost.
- Basically the work program is complete.









#### ✓ Perform Financial S-Curve

- This curve is used in SKALA ~ Unjuran Kewangan.
  - Works Cost (RM) vs Project Duration (Month).
  - Not to be confused with Physical S-curve. - Works Duration (days) vs Project Duration (Months)



#### CLASS EXERCISE.

ACTIVITY	DURATION (Weeks)	COST (RM '000)
Α	4	24
В	5	30
С	4	16
D	2	50
E	2	80
F	3	18

#### Q.1 Plot the Financial S-Curve.



#### CLASS EXERCISE.

ACTIVITY	DURATION (Weeks)	COST (RM '000)
Α	4	24
В	5	30
С	4	16
D	2	50
E	2	80
F	3	18

Q.2 Plot the Physical S-Curve.





ACTIVITY	DURATION (Weeks)	COST (RM '000)
Α	4	24
В	5	30
С	4	16
D	2	50
Ε	2	80
F	3	18

Q.3 Combine the Financial S-Curve & Physical S-Curve in the same chart.





#### **CLASS EXERCISE.**



## Q.3.5 Why Physical S-Curve show higher than Financial S-Curve ??

CLASS EXERCISE.



Q.4 What is the progress of the works at Week 3?

- Q.5 At Week 3, how much can be claimed as payment for work done?
- Q.6 At Week 3 the contractor actually achieved the following works:
  - A done 1000/2000
  - B done 2 of 5 columns
  - C installed A/C units 1 of 4
  - D no progress (0%)
  - E no progress (0%)
  - F done 100/300.

#### What's the progress & how much can be paid out?

#### SUMMARY.

- Be aware of the actual financial value of the works.
- Not to be misled into paying for works based on physical progress.
- This is the basis in deriving the financial S-curve and the physical S-curve.









### Perform S-Curve – Using Microsoft Project



#### TO OBTAIN FINANCIAL S-CURVE IN MS PROJECT 2010.

#### ✓ <u>Method 1</u> – using Visual Reports.

In SKALA we need monthly cash flow so can input into Unjuran Kewangan. So how?

#### ✓ Method 2 – using Task Usage View.









# Perform S-Curve - Using Visual Report



### **To Generate Financial S-Curve**



### To Generate Financial S-Curve (Continue...



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### To Generate Financial S-Curve (Continue...





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#### **To Generate Financial S-Curve** (Continue...) 🚽 🖉 + (°I + ...) 🖛 adr81 [Compatibility Mode] - Microsoft Excel **PivotChart Tools** Gg 🗖 X Home Insert Page Layout Formulas Data Review View PDF Design Layout Format Analyze Σ AutoSum · A A = = \* <₹ Calibri (Body) - 10 Wrap Text 🕹 Fill Paste Conditional Format Cell Insert Delete Format BIU E 표 표 \* \* Herge & Center \* Sort & Find & Sign and

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### **Financial S-Curve**



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### Perform S-Curve – Using Task Usage



### **To Generate Financial S-Curve**



- MSP 2010 only can produce Financial S-Curve based on week.
- To produce financial S-Curve based on month use MS Excel.



### **S-Curve Using Task Usage View**

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### S-Curve Using Task Usage View (cont..)



### S-Curve Using Task Usage View (cont..)

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### **Financial S-Curve**

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### Microsoft Project

# Physical S-Curve



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### **Physical S-Curve**

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- To obtain Financial S-Curve from the approved Work Programme.
- S-Curve in SKALA is from this Financial S-Curve.
- More realistic reporting based on the approved Work Programme.
- Contractor has to perform based on the financial cash flow that has been planned.

