# Project Cashflow

Part 7.3 February 18, 2001

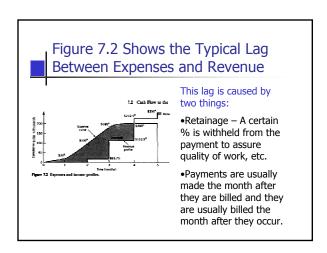
#### Purpose

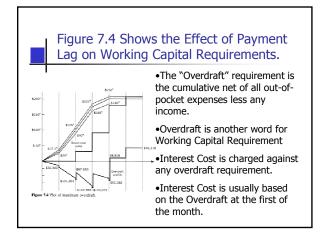
 Introduce Students to the concept of working capital and the affect of retainage on cashflow and working capital requirements.

### Learning Objectives

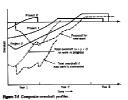
 Students should be able to compute a simple cashflow table and determine working capital requirements and interest costs thereof.

# Figure 7.1 Shows a simplified project with 4 Activities over 4 months. Note: Monthly Construction Cost Calculation. • All expenses and income that occur during the month are assumed to occur at the end of the month. • Direct Costs vary with active tasks. • Indirect are often constant.





# Figure 7.5 Shows How Excessive Overdraft May Limit a Firm's Ability to Expand.



- Although every project is assumed to be profitable, overdraft requirements mean that you have to borrow the money to "float" the project.
- This creates a "balance sheet" problem and adds to out-of-pocket expenses.
- Excess Interest Expense may cause you to loose money on a project.

# How to Compute the Monthly Cashflow for a Project.

First, Compute the Costs

- Determine the Direct Expenses
- Determine the Indirect Expenses –
   These may be a fixed amount or some
   % of Direct Expenses
- The Total Cost is the Sum of these two.

## Cont'd ... ...

Second, Compute the Billable Amount

- Compute the Profit as a % of Costs
- Add Profit and Cost
- Compute the Retainage as a % of this Sum.
- Deduct the Retainage to obtain the Billable Amount.

# Compute the Overdraft Requirement For The Month

- BOM (Beginning of Month) is the Prior Month's EOM (End of Month) Overdraft.
- Add Construction Cost for the month.
- Add Interest Cost Watch When
- Subtract any Income Watch Lag
- EOM is the Net of the Above.

Make Sure that Retainage is Returned in Correct Month

#### Here's how it works! Example of Project Cashflow Calculation 5,000 10,000 10,000 25,000 Mark Up 1.000 1.000 2.500 11,000 27,500 Retainage 1,100 2,750 Billable BOM Overdraft 5,000 15,050 20,251 10,553 de Cala 10,000 10,000 (25,000) 5,000 Interest (Monthly) Ô 151 203 (516) 27,500 Less: Income 9,900 9,900 EOM Overdraft 5,000 15,050 20,251 10,553 (1,984)1,984 Notes: These rules change from contract to contract (and from exam to exam).

All income and expenses are assumed to occur at the end of the month.

Monthly Interest Cost is calculated on the EOM. Overdraft of Prior Month.

Bills covering the month's expenses are submitted by the IO-th of next the month Poyment is received during the month following the month in which the bill was submitted.

Retainage is returned the month after the final payment is made.

#### Class Assessment

- Please take out a piece of paper, write down the muddiest part of the lecture and turn in the paper.
- Thanks