- Introduce Students to the concept of working capital and the affect of retainage on cashflow and working capital requirements.
Part 7.3
February 18, 2001


## 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.


## 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!

Notes: These rules change from controct 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 10 -th of next the month
Poyment is received during the month following the month in which the bill was submitted.
Retainoge 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

