

CONM CONSTRUCTION ESTIMATING

Outline of Instruction

Course Information

Organization	Monroe County Community College, Applied Science and Engineering Technology
Development Date	11/10/2008
Course Number	CONM 244
Potential Hours of Instruction	45
Total Credits	3

Description

This course covers the processes used to tabulate accurate construction cost estimates. Quantity survey techniques are used to determine equipment, labor and material costs. A detailed cost estimate and bid package will be developed using computer data base and estimating software. Conceptual Cost Estimating is introduced.

MAJOR UNITS:

1. Calculate quantities for common construction materials.
2. Develop costs associated with labor.
3. Develop equipment and material costs
4. Interpret specifications General Conditions.
5. Concepts of overhead and profit
6. Create detailed bid packages with computer software

Types of Instruction

Instruction Type	Contact Hours	Credits
Classroom Presentation	45	3

Textbooks

Len Holm, John Schaufelberger, Dennis Griffin, and Thomas Cole. *Construction Cost Estimating, Processes and Practices*. Prentice Hall. 2004. **Edition:** 1st. **ISBN:** 0130496650.

Learner Supplies

Architect scale. **Manufacturer:** any. **Quantity:** 1.

USB portable memory, 512 MB. **Manufacturer:** any. **Quantity:** 1.

Prerequisites

CONM 101
CONM 110

Exit Learning Outcomes

Program Outcomes

- A. Analyze, interpret and understand the fundamental processes used to create project designs and construction documents.
- B. Define the roles, relationships and responsibilities of the participants in the design and construction process.
- C. Use clear and effective written and oral communication methods to facilitate interaction with all project team participants.
- D. Accurately quantify materials required for project construction.
- E. Interpret construction documents to accurately predict project costs and assign resources.
- F. Operate industry-standard software for computer-aided design and drafting (CADD), project cost estimating, and project scheduling.

General Education Outcomes

- A. Apply mathematical approaches to the interpretation of numerical information
- B. Use computer technology to communicate information

Course Outcomes

1. **Create accurate bid packages.**
2. **Calculate bid quantities for common construction materials.**
3. **Develop project costs associated with labor.**
4. **Develop equipment costs.**
5. **Describe conceptual estimating techniques.**
6. **Apply concepts of overhead and profit.**