

QUANTITY SURVEYING / CONSTRUCTION ESTIMATOR SYLLABUS - MECHANICAL

303	Pricing and Bidding Procedures	April 18, 2001	
Course No.	Descriptive Title	Revision: 2	February, 2003

Course Description

In this course the student learns the principles and methods used in preparation of the unit prices for individual items of work. The procedures and considerations preparation of the total bid or tender price. The student will utilize the information obtained from quantity take off drawings and specifications.

Suggested Prerequisites: 102 Mechanical Technology I

103 Measurement of Mechanical Work I
104 Plumbing & Fire Protection Design
109 Heating, Ventilation and Air Conditioning Design
201 Mechanical Technology II
202 Measurement of Mechanical Work II
207 Refrigeration, Automatic Controls, Insulation
208 Mechanical Technology III
301 Measurement of Mechanical Work III

Learning Outcomes

Upon completion the student will be able to:

- a. prepare unit prices for individual items of work
- b. prepare a total bid or tender price.

Course Content:

The student will study the following:

1. from the text Means Mechanical Estimating Standards and Procedures
 - a. Chapter 1 Guidelines for Estimating
 - b. Chapter 2 Types of Estimates
 - c. Chapter 5 Pricing the Estimate
 - d. Chapter 6 Direct Costs
 - e. Chapter 7 Indirect Costs
 - f. Chapter 8 The Estimate Summary
 - g. Chapter 9 Pre-bid Scheduling
 - h. Chapter 10 Bidding Strategies
2. from the text Means Plumbing Estimating
 - a. Chapter 5 Writing Up and Pricing the Estimate
 - b. Chapter 6 Marking-up and Completing the Estimate
3. from the text Estimating Construction Costs
 - a. Chapter 17 Plumbing
 - b. Chapter 20 Water Distribution Systems
 - c. Chapter 21 Sewerage Systems
4. from the text Method of Measurement of Construction Costs.

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Required Textbooks and Materials:

1. Method of Measurement of Construction Works, published by the Canadian Institute of Quantity Surveyors
2. Estimating Construction Costs, by Peurifoy-Oberlender
3. Means Plumbing Estimating, by Galeno and Greene
4. Means Mechanical Estimating Standards and Procedures, by Moylan/Mossman.