



CIQS Syllabus		Original:	May 17, 1993
Course No:	A103	Rev. No:	4
Course Title:	Measurement of Construction Work I	Rev. Date:	March 31, 2012

Course Description:

This course introduces the student to basic blueprint reading and the measurement of construction work, including the proper use of the approved CIQS estimate form, along with the fundamentals of estimating. This course will also cover Divisions 2, 3, 4, 31, 32 & 33 of the Method of Measurement of Construction Works, 8th Edition.

Suggested Prerequisites:

Grade 11 Algebra

Learning Outcomes:

The candidate will be able to:

1. Read and interpret basic Construction Drawings,
2. Properly utilize the CIQS standard form of estimate,
3. Measurement of quantities using principles described in the CIQS Method of Measurement, 8th Edition for:
 - MasterFormat 2010 Division 02 – Existing Conditions
 - MasterFormat 2010 Division 03 – Concrete
 - MasterFormat 2010 Division 04 – Masonry
 - MasterFormat 2010 Division 31 – Earthwork
 - MasterFormat 2010 Division 32 – Exterior Improvements
 - MasterFormat 2010 Division 33 – Utilities.

Course Content:

1. Introduction to Construction Drawings and Details,
2. Introduction to measurement - the forms and approach,
3. Definitions of an estimate, and the various types of estimates,
4. General approach to measurement of work,
5. Detailed measurement of work, including excavations, concrete and masonry construction.

Required Textbooks and Materials:

1. Canadian Wood-Frame House Construction, 3rd Edition published by Canada Mortgage and Housing Corporation.
2. Fundamentals of Construction Estimating, 3rd Edition by David Pratt.
3. Method of Measurement of Construction Work, 8th Edition, published by The Canadian Institute of Quantity Surveyors.
4. Study Guide #103, published by The Canadian Institute of Quantity Surveyors

Detailed Study:

1. Reading and understanding of simple construction drawings and details such as supplied with the required text.
2. Measurement of work from similar drawings with particular attention to the accurate description of the items being measured, accurate recording of measurements, and the accuracy of extensions.
3. The scope of this subject covers Divisions 2, 3, 4, 31, 32 & 33 of the Method of Measurement of Construction Works 8th Edition and MasterFormat 2010.
4. Chapters 1 to 6 in the text Fundamentals of Construction Estimating, 3rd Edition by David Pratt.



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Testing:

1. Emphasis in testing will be placed on the proper interpretation of the information contained on the drawings, use of the estimate form, and the neatness and clarity of the estimate.
2. Accuracy of the description of the item being measured.
3. Accuracy of quantity measurement and extensions.
4. Method of Measurement of Construction Work, 8th Edition will be allowed as an open book during this examination.