



# Construction Estimating Fundamentals

## Fee: \$600 + HST

### Course Overview:

This online learning course was developed by the Toronto Construction Association (TCA) and The Construction Institute of Canada (TCIC) specifically for the construction industry. Its primary objective is to provide foundational knowledge and practical skills in construction estimating. The course is designed for individuals at various career stages and roles, including aspiring estimators, junior project managers, site superintendents, project coordinators, tradespeople, and professionals seeking to update their skills to meet Canadian standards. It is particularly beneficial for those who wish to build practical expertise in quantity takeoff and pricing.

Participants in this program learn essential concepts and procedures relevant to construction estimating. The curriculum emphasizes assessing project scope, utilizing checklists, and estimating labour, materials, and general expenses. Upon completion, students are equipped with the skills needed to prepare detailed estimates.

### Course Structure:

This 9-week, 8-module e-learning course is organized as follows:

#### Module 1: Introduction to Construction Estimating

- Overview of estimating processes
- Role and responsibilities of the estimator
- Types of estimates and floor area calculations

#### Module 2: Developing Detailed Estimates

- Introduction to takeoff tools and techniques
- Organizing detailed estimates
- Reading and interpreting construction specifications

#### Module 3: Quantity Takeoff for Concrete

- Formwork, reinforcement, cast-in-place concrete and accessories

#### Module 4: Quantity Takeoff for Masonry

- Brick and block masonry and accessories

#### Module 5: Estimating Finishes

- Interior finishes systems, drywall, flooring and painting
- Pricing finishes



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### Module 6: Introduction to Pricing Construction Works

- General principles and organizing the estimate
- Pricing labour, materials, equipment
- Developing unit costs

### Module 7: General Expenses and Overheads

- Identifying indirect costs
- Bonds, insurance, calculating overheads and mark-ups

### Module 8: Introduction to MEP Estimating

- Electrical, HVAC, plumbing

### Week 9: Final Examination

### **Learning Outcomes:**

Upon successful completion of this course, participants will be able to:

- Understand fundamental principles of construction estimating
- Perform quantity takeoff for various construction activities
- Apply standard pricing formats and checklists
- Develop unit costs for labour, materials, and general expenses
- Prepare and analyze estimates for construction projects

### Course Evaluation and Grading:

- Quizzes (Modules 1–8): 32% of final grade (4% per module)
- Practical Exercises (3 quantity takeoff exercises): 18% of final grade (6% each)
- Final Examination: 50% of final grade
- Passing Grade: 60%

### Delivery Method:

This course is delivered entirely online through self-paced modules, including:

Interactive lessons and presentations



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Self-study materials, resources, video, drawings, and practical instructions

Quizzes, practical exercises, and final examination

Participants will access all course content, resources, and instructions through the TCIC course website. You can complete the course at your own pace within a 9-week timeframe (recommended 30 hours).

### **Who Should Attend:**

- Aspiring Estimators
- Junior Project Managers
- Site Superintendents
- Project Coordinators
- Tradespeople
- Construction Management Professionals

### **Certification:**

This course is Gold Seal Certified (10 credits).