



# Quantity Surveying in the Americas

Duration: **5 Months Distance Learning Program**

Language: **English**

## Course Summary

The occupations of quantity surveying and cost consulting continue to grow in popularity and importance across the U.S. and Canada. Professionals possessing these skill sets are uniquely prepared to contribute to the transformational construction projects that are shaping the urban environments that we live in.

With 2016 construction spending surpassing US\$1.18 trillion in the U.S. (the highest level seen since 2006) and further increases in Canada (US\$290 billion), quantity surveyors and cost consultants can be assured that their skills will be in high demand by the employers tasked with building our cities of tomorrow. These figures are expected to further rise in coming years as new administrations in both the U.S. and Canada commit resources towards modernizing and replacing archaic infrastructure.

The Quantity Surveying in the Americas course will cover technical training around the key principles of tendering, estimating and pricing and provide you with knowledge of construction contracts and their financial provisions, procurement options; the production of tender documents; the contractor's tendering procedure and strategy; and the detailed process undertaken by the contractor to price tender documents.

## Who is this course for?

- Quantity surveying BSc/MSc graduates and assistant/graduate quantity surveyors looking to put theory into practice and gain a day to day understanding of the profession
- APC and Assoc. candidates looking to consolidate their practical skills and knowledge required to be a competent qualified quantity surveying professional
- Building technicians, surveyors, property valuers and engineers with a minimum of 3 years' professional experience.

## Course Structure

Delivered over 5 months, this course outlines the practices and core principles of quantity surveying in 6 content modules. Each module covers a competency required by the profession and uses a blended style of online study. Through a mixture of learning content and interactive sessions, participants will gain a thorough grounding of the required skills.

Each content module is composed of the following, to support and enhance the learners' needs in gaining knowledge throughout the course program.

- E-learning sessions
- Reading material
- Case studies
- Online forum
- End of module quizzes
- Online examination
- Live web classes

### E-learning sessions

The online technical e-learning sessions provide you with a detailed overview of the principles and methodologies covered within each module. These are created by highly experienced trainers to give the core competencies of quantity surveying practice.

### Reading Material

Further your study and understanding of the methodologies with the directed reading material. Sourced from textbooks and articles, these readings support your development throughout the course program.

### **Case Studies**

Technical case studies provide you with examples of practice, within these case studies you will be able to practice the theory taught within the module. Your responses will be shared within the online forums.

### **Online forum**

Each module has a dedicated forum to provide you with constant access to your tutor and a shared learning area with fellow participants. Creating a dedicated learning environment you will be able to partake in topic discussion and share your learning with lots of other people from all over the world.

### **End of module quizzes**

At the end of each module is a short quiz, to check your understanding of the content and to help track your progress.

### **Live web classes**

The live web classes consolidate your learning from the modules. Here you will have a chance to meet the course tutor and to ask any questions directly. All web classes are recorded so you can look back on them later.

## **Course Contents**

### **Module 1: Introduction to the Quantity Surveying in Practice course**

- Introduction to quantity surveying and the core competencies of quantity surveying
- Meet the tutors and other participants
- Outline of the course structure

### **Module 2: Construction technology and environmental services for domestic and more complex buildings**

- Alternative elemental options and sustainability
- Construction technology for domestic buildings and more complex buildings
- Environmental services for domestic buildings and more complex buildings

### **Module 3: Procurement and tendering**

- Procurement and tendering procedures
- Tender documentation
- Partnering and collaborative systems

#### **Module 4: Design economics, cost planning and commercial management of construction**

- Design factors that influence the elemental costs of buildings
- Pre and post cost planning and control of the building process
- Whole life cycle costing and building information modelling

#### **Module 5: Quantification and costing of construction works**

- Measurement of building works and tender documentation
- Evaluation of construction costs
- Current alternative forms of quantification

#### **Module 6: Construction legislation and standard forms of contract**

- Standard forms of contract
- Contractual procedures for payments and final agreement
- Contractual procedures for administrative issues

#### **Module 7: Project financial control and reporting**

- Cash flow procedures
- Financial control of construction costs
- Financial statements

#### **Module 8: Course revision and consolidation**

- Course summary and review
- What to expect in your exam

### **Learning Outcomes**

Upon reaching the end of each module, candidates will have gained the required knowledge to be able to:

- Evaluate alternative elemental options and sustainability
- Describe construction technology and environmental services for domestic buildings and more complex buildings
- Compare procurement and tendering procedures, produce tender documentation and undertake partnering and collaborative systems

- Assess design factors that influence the elemental costs of buildings
- Implement pre and post cost planning, control of the building process, and whole life cycle costing (with building information modelling)
- Undertake the measurement of building works and tender documentation and evaluation of construction costs
- Compare current alternative forms of quantification
- Compare standard forms of contract and contractual procedures for payments, final agreements and administrative issues
- Implement cash flow procedures, financial control of construction costs and create financial statements

## Course Overview

This course is made up of 8 modules delivered across 20 weeks (5 months). The modules are listed below:

Module 1: Introduction to the Quantity Surveying in Practice course

Module 2: Construction technology and environmental services for domestic and more complex buildings

Module 3: Procurement and tendering

Module 4: Design economics, cost planning and commercial management of construction

Module 5: Quantification and costing of construction works

Module 6: Construction law and standard forms of contract

Module 7: Project financial control and reporting

Module 8: Course revision and consolidation

## End of Course Assessment

Participants are assessed through an online examination within the RICS Online Academy. Learning is supported through the training program by a dedicated course tutor in forums and live web class sessions. The examination will take place within a one month window period at the end of the 6 month program.

Upon successful completion of the course participants would have completed 150 CPD hours study. Participants will also receive a certificate of course completion confirming they have successfully attended and passed the Quantity Surveying in Practice course.