Residential Construction Project Management Fundamentals

Fee: $600 + HST

From Planning to Handover: Build the Skills to Manage Residential Projects with Confidence and Professionalism.

This fully online course provides a practical, end-to-end foundation in residential construction project management. From initial planning, permits, and procurement to site operations, inspections, project closeout, and warranty follow-up, you'll learn how to manage each stage of a residential construction project effectively.

Through realistic scenarios and practical applications, you'll develop the skills and judgment needed to coordinate trades, manage schedules and budgets, control risks, maintain quality standards, and communicate effectively with stakeholders. You'll learn to anticipate challenges, make informed decisions on site, and keep projects on track toward successful completion.

Designed for construction professionals preparing to take the next step into project management or supervisory roles, this course equips you with practical knowledge and actionable skills you can apply directly to your work.

Turn construction knowledge into project leadership - and deliver better results from start to finish.

Learning Outcomes

Upon successful completion, participants will be able to:

- Explain the role of project management and site supervision in residential construction.
- Describe the lifecycle of a residential construction project, from pre-construction through closeout and warranty follow-up.
- Apply foundational planning tools to define scope, assess project readiness, and support project execution.
- Develop and monitor basic residential construction schedules, including trade sequencing, inspections, material deliveries, and client decisions.

- Interpret basic project cost information and support budgeting, estimating, allowances, change management, and cost control.
- ACoordinate trades, suppliers, inspections, site activities, and project handoffs.
- Identify common residential project risks, health and safety considerations, and practical mitigation measures.
- Apply quality-management, inspection, documentation, communication, and closeout practices in a residential construction environment.

Course Structure

The course is delivered over 12 weeks, progressing from the fundamentals of residential construction project management to the practical skills required to manage projects effectively. Key topics include planning, scheduling, cost control, procurement, site operations, safety, quality management, communication, and project handover.

Module 1 – Introduction to Residential Construction Project Management

- Purpose and scope of residential construction project management.
- Roles and responsibilities of the residential project management team.
- Residential building project classifications.
- Residential project lifecycle stages.

Module 2 – Residential Construction Framework

- Overview of the residential construction environment.
- Regulatory expectations in residential construction.
- Roles of designers, engineers, builders, and homeowners.
- Permit requirements and permit drawings.

Module 3 – Pre-Construction Planning

- Defining project goals and scope.
- Understanding drawings and specifications.
- Conducting constructability reviews.
- Developing the project execution plan.

Module 4 – Scheduling and Time Management

- Residential construction sequence.
- Scheduling trades and coordinating site activities
- Inspections, material deliveries, and client decisions.

- Monitoring schedule progress.

Module 5 – Budgeting, Estimating, and Cost Control

- Why budgeting and cost control matter.
- Reading drawings and specifications for cost items.
- Managing allowances, selections, and upgrades.
- Cost tracking and variance reporting.

Module 6 – Procurement and Trade Coordination

- Preparing scopes of work.
- Comparing quotes and managing procurement risks.
- Coordinating trade handoffs.
- Managing trade conflicts.

Module 7 – Site Supervision and Daily Operations

- Daily site leadership.
- Crew coordination, access control, and site security.
- Material flow and delivery coordination.
- Site meetings and progress check-ins.

Module 8 – Health, Safety, and Risk Management

- Common residential construction hazards.
- Safe work procedures.
- Project risk identification and mitigation.

Module 9 – Quality Management and Inspections

- Quality planning tools.
- Pre-inspection checklists.
- Deficiency tracking and punch lists.

Module 10 – Communication and Stakeholder Management

- Identifying project stakeholders.
- Preparing project updates.
- Digital document management.

Module 11 – Project Closeout and Handover

- Why closeout matters.
- Planning for closeout.
- Final payment and holdbacks.
- Handover and warranty readiness.

Week 12 – Final Examination

- Online final examination covering Modules 1–11.
- Applied assessment of residential project-management fundamentals.

Course Evaluation and Grading

- **Module quizzes:** 55% of the final grade; 11 quizzes worth 5% each.
- **Final examination:** 45% of the final grade.
- **Passing grade:** 60%.

Delivery Method

This course is delivered fully online as a 12-week learning experience. Each week combines self-paced modules, course guidance, illustrations, explanations, examples, and assessment activities that develop progressively from foundational project-management concepts to residential construction coordination and closeout.

Learning activities include:

- Online instructional modules and presentations.
- Self-study materials and recommended reference resources.
- Residential construction scenarios and practical examples.
- Guided exploration of planning, scheduling, budgeting, procurement, safety, quality, documentation, and closeout practices.
- A quiz for each of the 11 modules.
- An online final examination.

Participants are expected to complete each module and quiz in sequence before moving to the next module.

Who Should Attend

- Aspiring and early-career residential construction project managers.
- Site supervisors and assistant site supervisors.
- Construction coordinators and project-administration staff.

- Trade leads moving into supervisory or project-coordination responsibilities.
- Small builders, renovators, and residential contractors.
- Professionals who support residential planning, procurement, scheduling, site operations, inspections, quality, or client communication.
- Professionals involved in coordination, procurement, or document review.
- Anyone seeking a practical foundation in residential construction project management.

Certification

Participants must achieve a minimum score of 60% on the final exam to successfully complete the course and receive a Certificate of Completion.

Gold Seal credits: 10