

Building Code Training

Building Standards Training & Development

- Ontario Building Code—Part 9 Housing
- Ontario Building Code—Part 7 Housing
- Ontario Building Code—Part 3 Buildings
- Safety on Construction Sites
- Amanda 4.1
- Spray Booths
- Commercial Cooking Operations
- Air Barrier Workshop
- Court Procedures For Inspectors
- Building Inspection Orientation
- Party Wall Fire Separations Workshop



Training For Part 9 Housing & Small Buildings, Part 7 Plumbing, and Part 3 Fire Protection, Occupant Safety and Accessibility

About this Calendar

This document describes training opportunities currently planned for 2003. They focus on topics of interest to inspectors. Training sessions aimed at plans examiners will be added as they are developed.

As the certification requirements of Bill 124 take effect, these training programs will be aligned and harmonized with the certification syllabus to support and prepare building officials for their assessments in the stipulated disciplines.

Who Should Participate?

Training plays an important role in the development and knowledge base of any Town of Markham employee. For a highly technical position, such as a building inspector or plans examiner, training is crucial for ensuring building officials are current with building regulations, new technologies and department policies. Properly trained building officials help us meet our department's mission statement;

'We are leaders in using technologies and practices that facilitate sustainable development, prevent building failure and effect reasonable compliance with regulations.'

Markham is committed to promoting high performance by all role players in the construction industry. Builders, designers and building officials from other jurisdictions would also benefit from these training programs.

What Is Offered?

This *Building Inspection Training Calendar* has been developed to facilitate the offering of our Technical and Administrative in-house training programs. The calendar will be published annually and updated throughout the year. Individual training programs have been divided into smaller 1/2 day modules. By offering training in smaller increments, inspectors can concentrate on technical areas without having to take the entire course.

How to Participate?

Simple. Complete the training application at the end of this calendar and forward it to Christina, our Building Inspection Administrator. Please review and take advantage of these informal, but highly targeted building code and AMANDA training initiatives.

Anthony Boyko,
Manager, Building Inspections



Table of Contents

OBC Part 9 Housing

Excavation	4
Pre-Backfill	4
Framing	4
HVAC Rough-In	4
Fireplace Rough-In & Completion	5
Insulation	5
HVAC Final	5
Interior Final	5
Exterior Final	6
Light Steel Residential Framing	6
Sewer & Drain Inspections	6
Plumbing Rough-In Inspections	6

OBC Part 3 Buildings

Start of Construction	7
Foundation	7
Structural Framing	7
Building Envelope	7
Fire Separations	8
Life Safety Systems	8
Occupancy	8

Additional Training

Safety on Construction Sites	9
Amanda 4.1	9
Spray Booths	9
Commercial Cooking Operations	9
Air Barrier Workshop	10
Court Procedures For Inspectors	10
Building Inspections Orientation	10
Party Wall Fire Separations Workshop	10

Training Application Form

11



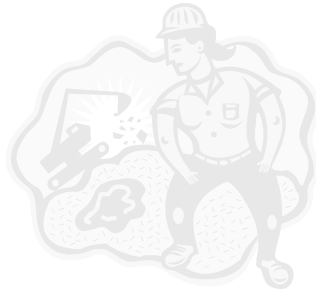
PART 9 HOUSING

Excavation

OBC Part 9

Topics Covered:

- Project review
- Undisturbed soil
- Minimum depth
- Form layout and setbacks
- Footings
- Precautions
- Waterproofing
- Termite Control



Course intended for: inspectors, contractors, builders

Duration: 1/2 day

Time: 9:00 a.m. to 12:00 noon

Dates: Thursday, June 26

Facilitator: Piero Cannistra

Pre-Backfill

OBC Part 9

Topics Covered:

- Project Review
- Support of Footings
- Footing Forms
- Foundation Wall Thickness
- Reduction in Thickness
- Joist and Beam Support
- Finishing (Below Ground)
- Form Ties and Segregation
- Damp proofing Material
- Finishing (Above Ground)
- Exterior Concrete Stairs
- Foundation Wall Drainage
- Placement of Backfill
- Termite Control
- Location of Insulation
- Lateral Support
- Anchorage of Building Frames

Course intended for: inspectors, contractors, builders

Duration: two 1/2 days

Time: 9:00 a.m. to 12:00 noon

Dates: Thursday, January 16

Thursday, January 23

Facilitator: Piero Cannistra

Framing

OBC Part 9

Topics Covered:

- Project Review
- Columns & Beams
- Anchorage of Building Frames
- Floor Joists
- Fire Separation, Collapse & Reduction
- Header & Trimmer Joists
- Glue-Laminated Beams
- Support of Walls
- Wall Studs & Plates
- Lintels & Windows
- Joists
- Spans-Joists, Rafters & Beams
- Intermediate Support for Rafters & Joists
- Roof Sheathing
- Roof Spaces-Ventilation
- Wood Roof Trusses
- Fire Stopping & Firewalls
- Fire Separation between Dwelling Units
- Egress & Travel Limit
- Above-Grade Masonry
- Stairs
- Ceramic Tile Reinforcement

Course intended for: inspectors, contractors, builders

Duration: three 1/2 days

Time: 9:00 a.m. to 12:00 noon

Dates: Thursday, February 13

Thursday, February 20

Thursday, February 27

Facilitator: Piero Cannistra

HVAC Rough-In

OBC Part 9

Topics Covered:

- Project Review
- Supply Air System
- Return Air System
- Chimney and Insulation
- Exhaust Systems
- Mechanical Ventilation

Course intended for: inspectors, contractors, builders

Duration: 1/2 day

Time: 9:00 a.m. to 12:00 noon

Dates: Thursday, February 6

Facilitator: Piero Cannistra

Fireplace Rough-In & Completion

OBC Part 9

Topics Covered:

- Project Review
- Chimney
- Hearth Extension
- Wall Thickness
- Clearances
- Smoke Chamber
- Factory-Built Fireplaces
- Fireplace Inserts
- Steel Liners
- Combustion Air
- Project Review
- Fireplace Design
- Damper
- Firebox Lining
- Mantel
- Combustion Air Duct
- Hearth
- Depressurization

Course intended for: inspectors, contractors, builders

Duration: 1/2 day
Time: 9:00 a.m. to 12:00 noon
Dates: Thursday, March 6
Facilitator: Piero Cannistra

Insulation

OBC Part 9

Topics Covered:

- Project Review
- Location
- Minimal Thermal Resistance
- Installation of Insulation
- Air Barrier Systems
- Vapour Barriers

Course intended for: inspectors, contractors, builders

Duration: 1/2 day
Time: 9:00 a.m. to 12:00 noon
Dates: Thursday, March 13
Facilitator: Piero Cannistra

HVAC Final

OBC Part 9

Topics Covered:

- Supply and Return Air Systems
- Mechanical Ventilation
- Finished Basements
- Basement Walkouts

Course intended for: inspectors, contractors, builders

Duration: 1/2 day
Time: 9:00 a.m. to 12:00 noon
Dates: Thursday, April 3
Facilitator: Piero Cannistra

Interior Final

OBC Part 9

Topics Covered:

- Project Review
- Stairs
- Handrails
- Guards
- Wall, Ceiling & Floor Finishes
- Doors
- Fire Protection
- Electrical & Plumbing Facilities

Course intended for: inspectors, contractors, builders

Duration: 1/2 day
Time: 9:00 a.m. to 12:00 noon
Dates: Thursday, March 27
Facilitator: Piero Cannistra

PART 9 and PART 7 HOUSING

Exterior Final OBC Part 9

Topics Covered:

- Project Review
- Drainage
- Stairs
- Handrails
- Guards
- Cladding
- Flashing & Caulking
- Roofing & Venting

Course intended for: inspectors, contractors, builders

Duration: 1/2 day
Time: 9:00 a.m. to 12:00 noon
Dates: Thursday, April 10
Facilitator: Piero Cannistra

Light Steel Residential Framing OBC Part 9

Topics Covered:

- Materials & Identification
- Exterior Wall Sheathing
- Wall Studs
- Floor & Ceiling Joists

Course intended for: inspectors, contractors, builders

Duration: two 1/2 days
Time: 9:00 a.m. to 12:00 noon
Dates: Thursday, September 18
 Thursday, September 25
Facilitator: Piero Cannistra

Plumbing Rough-In Inspections OBC Part 7

The program focuses on specific inspection checklist items, to meet the needs of inspectors at a beginner level and to identify both correct and incorrect construction inspection checklist items for housing projects.

Topics Covered:

- Project Review
- Drainage Systems
- Venting Systems
- Potable Water Systems
- Testing of Systems

Course intended for: inspectors, contractors, builders

Duration: 5 1/2 days
Time: 9:00 a.m. to 12:00 noon
Dates: Tuesday, September 23
 Tuesday, September 30
 Tuesday, October 21
 Tuesday, October 28
 Tuesday, November 18
 Tuesday, November 28
Facilitator: Derek Hanlon

Sewer & Drain Inspections OBC Part 7 - Housing

Topics Covered:

- Project Review
- Identification & Certification
- Service Connections
- Pipe, Pipe Fittings & Connections
- Cleanouts, fittings & Floor Drains
- Minimum Slope, length & size of drainage pipes
- Support of Piping
- Protection of Piping
- Spatial Separation
- Testing of Drainage Systems

Course intended for: inspectors, contractors, builders

Duration: 1/2 day
Time: 9:00 a.m. to 12:00 noon
Dates: Tuesday, February 18
Facilitator: Piero Cannistra

Start of Construction

OBC Part 3

To confirm that the person in charge for construction maintains on site a set of approved plans, knows who is responsible for the inspection of the project and understands what inspections and reports are required.

Topics Covered:

- Project Review
- General Review

Course intended for: inspectors, contractors, builders

Duration: 1/2 day
Time: 9:00 a.m. to 12:00 noon
Dates: Thursday, April 17
Facilitator: Tony Boyko

Foundation

OBC Part 3

Topics Covered:

- General
- Soil Conditions
- Foundation Complete

Course intended for: inspectors, contractors, builders

Duration: 1/2 day
Time: 9:00 a.m. to 12:00 noon
Dates: Thursday, April 24
Facilitator: Piero Cannistra

Structural Framing

OBC Part 3

Topics Covered:

- General
- Reinforced Concrete
- Structural Steel
- Floor & Roof Framing
- Plain & Reinforced Masonry
- Precast Concrete

Course intended for: inspectors, contractors, builders

Duration: five 1/2 days
Time: 9:00 a.m. to 12:00 noon
Dates: Thursday, May 1
Thursday, May 8
Thursday, May 15
Thursday, May 22
Thursday, May 29
Facilitator: Piero Cannistra

Building Envelope

OBC Part 3

Topics Covered:

- Building Components and Assemblies
- Heat Transfer
- Air Barrier System
- Vapour Barrier
- Protection from Precipitation
- Surface Water
- Foundation and Floor Drainage

Course intended for: inspectors, contractors, builders

Duration: 1/2 day
Time: 9:00 a.m. to 12:00 noon
Dates: Thursday, October 16
Facilitator: Piero Cannistra

PART 3 BUILDINGS

Fire Separations

OBC Part 3

Topics Covered:

- Continuity
- Fire-Resistance
- Closures
- Wired Glass and Glass Block
- Combustibility of Service Penetrations
- Fire Stopping of Service Penetrations

Course intended for: inspectors, contractors, builders

Duration: two 1/2 day

Time: 9:00 a.m. to 12:00 noon

Dates: Thursday, October 23
Thursday, October 30

Facilitator: Piero Cannistra

Life Safety Systems

OBC Part 3

Topics Covered:

- Fire Alarm Systems
- Sprinkler Systems
- Standpipe and Hose Systems
- Emergency Systems

Course intended for: inspectors, contractors, builders

Duration: two 1/2 days

Time: 9:00 a.m. to 12:00 noon

Dates: Thursday, November 20
Thursday, November 27

Facilitator: Piero Cannistra

Occupancy

OBC Part 3

Topics Covered:

- General
- Structural Framing
- Building Envelope
- Walls
- Fire Separations
- Exits
- Shafts
- Restricted Access to Site
- Egress
- Service Rooms
- Plumbing Facilities
- Suite Lighting, Heating and Electrical
- Lighting in Corridors, Stairways and Exits
- Life Safety Systems
- Portable Fire Extinguishers
- Garbage Rooms and Chutes
- Fire Fighting Access

Course intended for: inspectors, contractors, builders

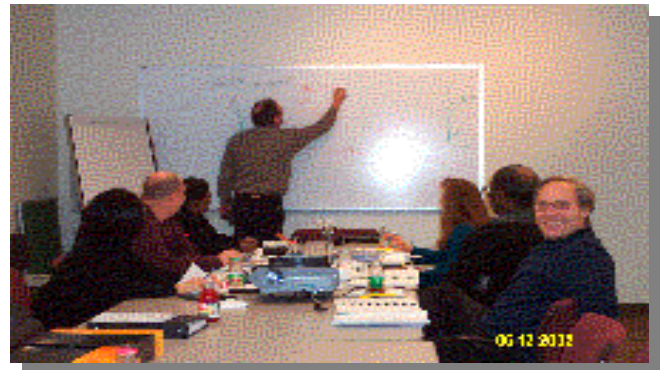
Duration: two 1/2 days

Time: 9:00 a.m. to 12:00 noon

Dates: Thursday, November 6
Thursday, November 13

Facilitator: Piero Cannistra

BUILDING INSPECTION TRAINING SESSION



Safety on Construction Sites

Topics Covered:

- General Personal Protection
- Head, Foot, Eye & Skin Protection
- Respiratory Protection
- Fall Protection
- Traffic Control
- Ladders & Scaffolds
- Trenches & Excavations
- Access to Inspection Areas
- Propane Storage
- Wall Bracing

Course intended for: inspectors, contractors, builders

Duration: 1/2 day

Time: 9:00 a.m. to 12:00 noon

Dates: Thursday, January 30
Thursday, September 11

Facilitator: Piero Cannistra

Amanda 4.1

Topics Covered:

- 4.1 New Features
- Folder Query
- Property Query
- People Query
- Inspection Requests
- Entering Inspection Results
- Entering Deficiencies *
- Document Management & Imaging *

Course intended for: inspectors

Duration: 1/2 day

Time: 9:00 a.m. to 12:00 noon

Dates: Tuesday, January 7
Wednesday, January 8
Thursday, January 9

* Spring-To Be Determined

Facilitator: Christina Doyle-Dimou

Spray Booths

Topics Covered:

- Project Review
- Location
- Construction
- Ventilation
- Equipment
- Flammable & Combustible Liquids
- Drying Operations
- Automobile Undercoating

Course intended for: inspectors, contractors, builders

Duration: two 1/2 days

Time: 9:00 a.m. to 12:00 noon

Dates: Thursday, June 6
Thursday, June 9

Facilitator: Piero Cannistra

Commercial Cooking Operations

Topics Covered:

- Project Review
- General Requirements
- Hoods
- Duct System
- Grease Removal Devices in Hoods
- Air Movement
- Auxiliary Equipment
- Fire Extinguishing Equipment
- Certification & Testing
- Minimum Safety Requirements
- Recirculating Systems
- Solid Fuel Cooking Operations
- Minimum Safety Requirements

Course intended for: inspectors, contractors, builders

Duration: three 1/2 days

Time: 9:00 a.m. to 12:00 noon

Dates: Thursday, June 5
Thursday, June 12
Thursday, June 19

Facilitator: Piero Cannistra

ADDITIONAL TRAINING

Air Barrier Workshop

Topics Covered:

- System Types
- Location
- Continuity
- Lapping
- Clamping
- Sealing
- Projections
- Penetrations
- Inspection Problems

Course intended for: contractors & builders

Duration: 1/2 day

Time: 9:00 a.m. to 12:00 noon

Dates: Tuesday, June 17

Facilitator: Piero Cannistra

Court Procedures For Inspectors

Topics Covered:

- Preparing For Court
- Stating Evidence in Court
- The Do's and Don'ts on the Witness Stand

Course intended for: inspectors

Duration: full day

Time: 9:00 a.m. to 4:00 pm

Dates: * **Spring-To Be Determined**

Facilitator: Carla Dunlop

Please note that the course includes a field trip to the court house.



Building Inspection Orientation

Housing OR

Non-Housing

Topics Covered:

- Roles & Responsibilities of the builder & inspector
- Preparing for Inspections
- Scheduling Inspections
- Conducting Inspections
- Recording Inspection Results
- Next Day Service
- Types of Inspections
- Certificates of Occupancy
- Builder Tips & More...

Course intended for: contractors & builders

Duration: two 1/2 days

Time: 9:00 a.m. to 12:00 noon

Dates: Tuesday, April 15

Tuesday, April 22

Facilitator: Piero Cannistra

Party Wall Fire Separations

Workshop

OBC Part 9

Topics Covered:

- Fire Resistance Rating
- Continuous Membrane
- Wood I Construction
- Collapse
- Minimum Masonry Thickness
- Electrical Services
- Mechanical Services
- Fire Compartments
- Fire Stopping

Course intended for: contractors & builders

Duration: 1/2 day

Time: 9:00 a.m. to 12:00 noon

Dates: Tuesday, March 25

Facilitator: Piero Cannistra

**TOWN OF MARKHAM
BUILDING STANDARDS**

Training Application

I am applying for: Building Code Course Health & Safety Course Computer Course

Use this form to apply for courses listed in the *Building Inspection Course Calendar*. Complete this application form for *each* course you wish to take. Registration is on a "first come, first served" basis so **register early** to ensure your enrollment.

Please note:

⇒ Your participation will be confirmed 10 business days before the course. If a course is full, we will put you on a waiting list and notify you if a space becomes available. We will also notify you if the course is cancelled.

⇒ **The deadline for registration is 10 business days before a course begins.**

TOWN OF MARKHAM EMPLOYEES

Last Name: _____ First Name: _____

Job Title: _____ Work location: _____ Phone #: _____

Commission/Department/Unit: _____

Course Name: _____

Course Date (s): _____

I am replacing _____ of _____ who is unable to attend.

Supervisor's Approval _____

FOR EXTERNAL APPLICANTS (Minimum number of participants required 5+)

Last Name: _____ First Name: _____

Occupation: Builder Contractor Inspector Other _____

Organization: _____ Job Title: _____

Phone #: _____ Fax #: _____

Address: _____ Email: _____

Course Name(s): _____

Course Date (s): _____ Special Needs: _____

\$100 Per 1/2 Day \$175 Per Full Day (Includes Course Material)

I am replacing _____ of _____ who is unable to attend.
(employee's name) (organization)

Please return this form to: Building Inspections

101 Town Centre Boulevard, Markham, ON L3R 9W3

Fax: 905-415-7501, Email: cdoyledimou@city.markham.on.ca

Attention: Christina Doyle-Dimou

Our Mission

We strive to enhance the quality of community life with particular emphasis on environmental, health, accessibility and life safety issues related to building construction.

This mission is accomplished by delivering the optimum level of service in a timely, cost-effective and consistent manner within a corporate climate that is open, responsive, progressive and fair.

We are leaders in using technologies and practices that facilitate sustainable development, prevent building failure and effect reasonable compliance with regulations.



“Raising Standards...Meeting Needs”

**TOWN OF MARKHAM
BUILDING STANDARDS**



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