

# C-NRPP Certification Program and Canadian Radon Standards



# Intro to CARST



## Canadian Association of Radon Scientists and Technologists (CARST)

- Member organization to work with C-NRPP to provide input on ensuring policies developed also benefit radon professionals
- Managed by a Board of Directors

## CARST Goals

- To ensure quality standards are developed and adopted in radon measurement, radon mitigation and in new construction radon reduction techniques
- To provide a community for education sharing of ideas, resources and research
- To provide an effective radon partnership between radon professionals in the field and other interested public and private organizations (such as Health Canada, Canada Mortgage and Housing Corporation and others)
- Promote public awareness of radon measurement, radon mitigation and new construction radon reduction techniques

# CARST and C-NRPP working together...



## CARST:

Represents radon professionals; supports and assists them in working in the industry

## C-NRPP:

Provides professional certifications; establishes standards of excellence and best practices

# Intro to C-NRPP

- C-NRPP is a Canadian Radon Certification Program
- Established in co-operation with Health Canada and NRPP and CARST
- Developed to ensure professionals are trained to a quality level of service and follow guidelines



# 2015 Administration



## CARST Board

- 12 members
- Elected
- Operate under the CARST By-laws
- responsible to ensure C-NRPP maintains financial viability



## C-NRPP Policy Advisory Board

- 12 members
- Appointed
- Various industry backgrounds
- Operate under a Terms of Reference

## HEALTH CANADA

- Health Canada**
- Point of Contact**
- **Weekly meetings**
- **Deepti Bijlani**

# Structure of C-NRPP – as at April 30, 2016

Effective June 1, 2014, C-NRPP took over processing application for the C-NRPP program from NRPP. At that date, there were 139 certified professionals in Canada for Radon Measurement and 77 in Canada for Radon Mitigation. This MOU is up for renewal June 1, 2016.



## Role under the MOU:

- Administer the program
- Represents radon professionals;
- Supports and assists them in working in the industry;
- Provides input to C-NRPP on behalf of professionals
- Provides outreach and awareness to homeowners
- Over sees C-NRPP finances to ensure viability
- Work jointly on committees for development

## Health Canada

### Role under the MOU:

- Exams and practices are to reflect guidance and policies on radon measurement and mitigation
- Mutual updating of radon research and standards
- make every effort to raise awareness of the Certification Program among professionals in the industry, other government and non-government agencies and the Canadian public,
- to encourage such individuals to seek certification as radon measurement or mitigation professionals through C-NRPP
- to request certified professionals when procuring radon services
- Review QA data
- Provide translation services

## NRPP/AARST

### Role under the MOU:

- Credentialing support for Secondary and Tertiary Chambers
- Approval process for C-NRPP Device listing
- work with radon measurement laboratories supplying services for Canadians to ensure they provide measurement devices in accordance with procedures and standards set by the Program



# C-NRPP

## *Mission Statement:*

C-NRPP is committed to ensure all Canadians have access to a certified radon professional to reduce lung cancer risk from radon.

## *Vision Statement:*

C-NRPPs vision is to have radon services available in all regions of Canada and that Canadians recognize the need to use certified radon professionals when having their home tested and fixed.



# Benefits of Certification



## Once certified, you will

- Be recognized as a certified professional and recommended by:
  - Health Canada,
  - Lung Associations
  - Canadian Cancer Society
  - Take Action on Radon
  - Eligible to bid on contracts that require certification
- Be recognized as being trained to quality standards
- Be listed on the Website
- Receive Email Updates
- Have the opportunity to participate in local committees and outreach efforts
- Be informed of educational programs and conferences





# C-NRPP Certification Types

- **Radon Measurement Professional:** A professional who deploys and retrieves radon detectors in buildings and provides a client with a report of the associated measurement results which are generated by a Radon Analytical Laboratory.
- **Radon Mitigation Professional:** A professional who interprets radon test results, and determines the most effective way to manage radon concentrations within buildings. This could include the requirement of further diagnostic testing, the design and/or installation of radon mitigation systems
- **Analytical Measurement Laboratory:** A laboratory/organization that analyzes radon detection devices
- **Radon Trainer** – A professional who provides training for certification in Radon Measurement and/or Radon Mitigation
- **Controlling Radon in New Canadian Homes (CRNCH) Installer** – A person who is trained in the design, installation and/or inspection of methods to resist the leakage of radon and other soil gases from the ground into a new low-rise dwellings.

# Radon Measurement Professional



**Radon Measurement Professional:** A professional who deploys and retrieves radon detectors in buildings and provides a client with a report of the associated measurement results which are generated by a Radon Analytical Laboratory

To Qualify:

- take a course (2 days instruction; classroom or distance based)
- Pass a proctored exam (with course or One-Write basis)
- Submit an application and pay certification fee \$200



Steps to Become C-NRPP Certified as a:



# Radon Measurement Professional

## **STEP 5 – Renew every 2 years**

- To maintain certification 20 Professional Practice Credits
- payment of renewal fee.
- Requirement of Quality Assurance protocols

## **STEP 4 – Become Certified**

- Receive wallet card
- Be listed on the C-NRPP website

## **STEP 3 – Apply for Certification**

- pay the fees
- Submit application; provide documentation

## **STEP 2 - Pass the Canadian Measurement Certification Exam**

- 100 multiple choice questions
- Proctored Exam in class or One-Write basis
- 2 hours
- Only allowed pencil and simple calculator

## **STEP 1 - Take a Course: Radon Measurement Course (16hrs)**

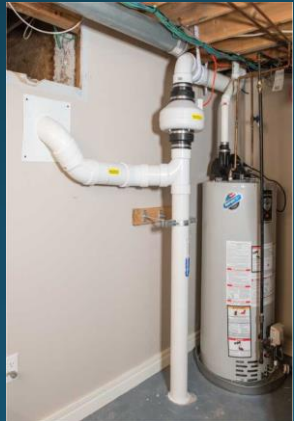
- Classroom Course
- Online Course

# Radon Mitigation Professional

**Radon Mitigation Professional:** A professional who interprets radon test results, and determines the most effective way to manage radon concentrations within buildings. This could include the requirement of further diagnostic testing, the design and/or installation of radon mitigation systems

## To Qualify:

- take a course (classroom based with hands-on experience)
- Pass a proctored exam (either with course or One-write basis)
- Submit an application and pay certification fee \$200
- Agree to follow standard protocols



Steps to Become C-NRPP Certified as a:

# Radon Mitigation Professional



## STEP 6 – Renew every 2 years

- To maintain certification 20 Professional Practice Credits
- payment of renewal fee.
- Requirement of Quality Assurance protocols

## STEP 5 – Become Certified

- Receive wallet card
- Be listed on the C-NRPP website

## STEP 4 – Apply for Certification

- pay the fees
- Submit application; provide documentation

## STEP 3 - Pass the Canadian Mitigation Certification Exam

- 120 multiple choice questions, 3 hours
- Proctored Exam in class or One-Write basis
- Only allowed pencil and simple calculator

## STEP 2 – Complete Hands On Experience

- Classroom Course included;
- online course under guidance of a mentor

## STEP 1 - Take a Course: Radon Mitigation Course (16hrs)

- Classroom Course
- Online Course

# CRNCH Certified: Controlling Radon in New Canadian Homes



**Controlling Radon in New Canadian Homes (CRNCH) Installer** – A person who is trained in the design, installation and/or inspection of methods to resist the leakage of radon and other soil gases from the ground into a new low-rise dwellings.

To Qualify:

- take a course (4-6 hours)
- Pass a proctored exam (with course or One-Write basis)
- Submit an application and pay certification fee \$200



Steps to Become C-NRPP Certified as a:



# CRNCH Certified:

## Controlling Radon in New Canadian Homes

### STEP 5 – Renew every 2 years

- payment of renewal fee.

### STEP 4 – Become Certified

- Receive wallet card
- Be listed on the C-NRPP website

### STEP 3 – Apply for Certification

- pay the fees
- Submit application; provide documentation

### STEP 2 - Pass the Canadian Measurement Certification Exam

- 50 multiple choice questions, 1 hour
- Proctored Exam in class or One-Write basis
- Only allowed pencil and simple calculator

### STEP 1 - Take a Course: CRNCH Course (4-6 hrs)

- Classroom Course

# C-NRPP Devices and Analytical Laboratories

**C-NRPP Certified Devices:**

**C-NRPP Analytical Laboratories:**

**To Qualify:**

- Device needs to be approved and added to list
- Lab needs to have at least one C-NRPP Measurement Certified professional
- Submit an application with Quality Assurance manual and calibration certificates and pay certification fee





Steps to Become C-NRPP Certified as a:

# C-NRPP Devices and Analytical Laboratories



## STEP 5 – Renew every 2 years

- Submit Quality Assurance/Quality Control Documents

## STEP 4 – Become Certified

- Receive certificate
- Be listed on the C-NRPP website

## STEP 3 – Apply for Certification

- pay the fees
- Submit application; provide documentation, Quality Assurance Manual

## STEP 2 – Lab Contact needs to be Measurement Certified

## STEP 1 – Apply to have the Device listed on C-NRPP Approved List

- Meet Requirements
- Submit Paperwork to confirm Requirements met
- Pay the fees

# Maintaining Certification

- 20 credits of Professional Practice Credits with at least 4 hrs of approved CE courses and then the rest of the credits from 2 out of 4 categories
  - Community Outreach and Radon Awareness
  - Professional Development
  - Radon Industry Participation
  - Hands On Practice
- submit a renewal form and pay certification fee




# Consequences of Decertification


- On application professionals sign a Code of Ethics
- There are a list of violations on the Code of Ethics and a list of suggested consequences
- Code of Conduct Committee reviews complaints
- C-NRPP has a complaint process



# Radon Standards

 **Health Canada** / **Santé Canada**  
Your health and safety... our priority. / Votre santé et votre sécurité... notre priorité.

## Reducing Radon Levels in Existing Homes: A Canadian Guide for Professional Contractors

 **Health Canada** / **Santé Canada**  
Your health and safety... our priority. / Votre santé et votre sécurité... notre priorité.

## Guide for Radon Measurements in Public Buildings

(Workplaces, Schools, Day Care, Hospitals, Care Facilities, Correctional Centres)

 **Health Canada** / **Santé Canada**  
Your health and safety... our priority. / Votre santé et votre sécurité... notre priorité.

## Guide for Radon Measurements in Residential Dwellings (Homes)





CANICGSB-148.12-2015 CD-01

CD-01  
Draft Date: 2015-06-30  
C\*/CGSB 148.12-2015  
CGSB Committee 148/SP/9

### Radon mitigation options for existing low rise residential buildings

Document stage: **40 - PUBLIC REVIEW**  
ICS 91.120.99  
Document type: National Standard of Canada

*DRAFT STANDARD FOR PUBLIC REVIEW*

CANICGSB-148.11-2015 CD-01

CD-01  
Draft Date: 2015-07-10  
CANICGSB-148.11-2015  
CGSB Committee 148-GP-9

### Radon control options for new construction in low rise residential dwellings

ICS 91.040.30  
Document type: National Standard of Canada  
Document stage: **40 - Approval**

**Warning**

This document is not a National Standard of Canada. It is a draft distributed to CGSB committee members and other interested persons for review and comment. This draft is subject to change without notice and must not be referred to as a National Standard of Canada.

Recipients of this document are invited to submit their comments, to advise the CGSB committee of any relevant patent rights that they are aware of, and to provide supporting documentation. This information should be provided on or before **2015-09-12**, to:

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*Draft Standard for Public Review*





# Radon Measurement Protocols

- Health Canada: Guidelines for Measurement in Residential Dwellings
- Health Canada: Guidelines for Measurement in Public Dwellings
- Provides guidance on where to place tests
- How many tests to place and which room and location within the room
- Which devices to use



# Quality Assurance Protocols

10% Duplicates

5% Blanks

3% Spikes

Equipment needs to be calibrated.

# Radon Mitigation Protocols



- Worker Safety Guidelines
  - Including radon exposure and other workplace safety issues
- Fan Sizing
- Communication Tests under the slab
- Specifications of Pipe Type
- Proper discharge points
- Design considerations





# National Building Codes – Soil Gas

## What's in the code?

- Gravel sub-membrane layer
- Poly membrane beneath the slab - sealed
- Properly located radon rough-in or passive pipe
- Proper sealing
- Properly sealed sump pit

## Issues:

- Research shows builders are not properly locating, sealing or labelling rough-in pipe
- Homeowner's don't understand the need to test after occupancy
- BC has enhanced their provincial code by recommending a rough-in



# Plans for the Future



- Releasing new C-NRPP Quality Assurance Manual
- Releasing C-NRPP Protocols on Short Term Testing
- Professional webinars
- Increase public awareness of C-NRPP Certifications
- Develop tools for professionals
- Increase number of professionals trained in techniques for New Home Construction

# Benefits of Certification Program

- Work closely with Health Canada
- Sets standards for accreditation and ensuring proper protocols
- Respond to needs in the Canadian industry
- Process of responding to complaints
- Distribution of research
- Health and Safety guidelines for professionals and building occupants
- Provides homeowner's and building owners with trusted professionals to call for assistance
- Assist in increasing radon awareness across the country
- Provide professionals with assistance



# For More Information

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