Heat Pump Industry Training Resources

Canada's Tournament Capital

Required courses for HVAC professionals to join the Home Performance Contractors Network (HPCN) (as of March 2022):

The HPCN is an online database of qualified retrofit contractors made to further capacity building in British Columbia for high performance homes. HVAC companies applying must complete both of HPSC's courses and two courses offered by either TECA or HRAI for a total of four courses. More information on the HPCN and how to join can be found at **HomePerformance.ca/Home-Performance-Contractor-Network**. For course details, click on a course name below or visit **Kamloops.ca/HeatPumps**.

COURSE NAME	*INSTITUTE	COST	LEARNING OBJECTIVES	DETAILS
Retrofitting with a House-as-a-System Approach	HPSC	$200.00	• Introduction to the 'House-as-a-System' approach to retrofitting • Identify and solve common home issues with energy retrofits • Focus is on practical examples and scenarios	• Online • Self-paced • 3 hours
Quality Installation of Forced-Air Furnaces and Air Source Heat Pump Retrofits in BC	HPSC	$1,500.00 Free for contractors applying to HPCN	• Evaluate existing HVAC systems and optimize the performance of replacement systems • Best practices for quality installation of furnaces and air-source heat pumps in residential retrofits • Consumer education to support system use and maintenance	• Online • Self-paced • 30 hours
Principles of Residential Ventilation	HRAI	$865.00	• Proper equipment sizing and installation for ventilation system design and distribution • Learn how to determine ventilation and exhaust inlet requirements and meet code specifications	• Online • 2 days
Residential Heat Loss & Heat Gain Calculations	HRAI	$1,240.00	• Basic principles of building science and heat loss/heat gain calculations • Learn how to determine thermal resistance	• Online • 4 days
Heat Loss / Heat Gain	TECA	$199.00–$299.00 (In-person) $335.00–$385.00 (Online)	• Perform accurate code-compliant heat loss/heat gain calculations • Elaborates on dynamic heat loss and heat gain • Covers room-by-room and whole building heat loss and heat gain calculations	• Online • 3 days • In-person (Surrey) • 1 day
Principles of Moving Air	TECA	$400.00–$500.00 (In-person) $559.00–$659.00 (Online)	• In-depth look at how air moves through a system • Installation of ducting and air filters • How to develop quiet and efficient systems • Understand the relationships between pressure, pressure drop, volume, velocity, and power	• Online • 3 days • In-person (Surrey) • 2 days

***LEGEND:**
HPSC - Home Performance Stakeholders Council
HRAI - Heating, Refrigeration and Air Conditioning Institute of Canada
TECA - Thermal Environmental Comfort Association

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