

**Thermal Environmental Comfort Association (TECA)**

BC Toll Free Phone: 1-888-577-3818 Fax: 1-888-577-3137 E-mail: training@teca.ca

Mail: PO Box 73105, Evergreen RO, Surrey, BC, V3R 0J2 Website: www.teca.ca

TRANSITION PERIOD "CHALLENGER"
CERTIFICATE OF QUALIFICATION PRE-APPLICATION
Certified Heating Technician

A. Applicant's Information

ITA Apprentice Number (TWID):					
Legal Last Name:		Legal First Name:		Legal Middle Name(s):	
Date of Birth (YYYY/MM/DD):		Gender: <input type="checkbox"/> Male <input type="checkbox"/> Female			
Suite Number:		Mailing Address:			
City:		Province: B.C.	Postal Code:		Email:
Daytime Telephone Number: ()		Home Telephone Number: ()		Fax Number: ()	
Please indicate the endorsement you are applying for: <input type="checkbox"/> Hydronics <input type="checkbox"/> Forced Air <input type="checkbox"/> Both					

B. Employer/Sponsor to Complete

Sponsor Registration Number (if registered):		Legal Name of Business:			
Suite Number:		Mailing Address:			
City:		Province: B.C.	Postal Code:		Email:
Daytime Telephone Number: ()		Fax Number: ()		Contact Person:	

C. Work Experience & Training Details

TECA Quality First "Forced Air Guidelines" AND "Basics of Air " Numbers: OR TECA Quality First "Hydronic Design" Number:	
TECA Quality First "Ventilation Guidelines" Number:	BCSA Class B Gasfitter Number:
Record of Employment - Please indicate which of the following documents is attached: <input type="checkbox"/> T4 (Self Employed) <input type="checkbox"/> Employer Letter of Attestation <input type="checkbox"/> Completed 6000 work based hours (5 years)	

Please provide a letter outlining your work experience AND complete form on Page 2 outlining percentage of work performed in each area. If self-employed 2 letters of attestation from industry are required (i.e. supplier, industry association, general contractor etc).

Applicant's Signature:		Date (YYYY/MM/DD):	
Sponsor/Employer's Signature:		Date: (YYYY/MM/DD):	
OFFICE USE ONLY: <input type="checkbox"/> Gas B # <input type="checkbox"/> Vent. # <input type="checkbox"/> FA/BA # <input type="checkbox"/> Hyd.# <input type="checkbox"/> ROE <input type="checkbox"/> Letter <input type="checkbox"/> Page 2			


Thermal Environmental Comfort Association (TECA)

BC Toll Free Phone: 1-888-577-3818 Fax: 1-888-577-3137 E-mail: training@teca.ca

Mail: PO Box 73105, Evergreen RO, Surrey, BC, V3R 0J2 Website: www.teca.ca

TRANSITION PERIOD "CHALLENGER"
CERTIFICATE OF QUALIFICATION PRE-APPLICATION
Certified Heating Technician

Please indicate with check if work is performed in each area. Submit this form with Page 1.

LEVEL 1 - COMMON CORE

Orientation to Residential Heating Industry Including: knows work performed by a heating technician; types of heating systems; understands heating industry structure	<input type="checkbox"/>
Residential Heating Career Access Skills Including: Uses trade math; use Work Safe practices; use and care of industry tools (hand and power); use of shop equipment	<input type="checkbox"/>
Plan Reading Including: read and interprets plan sections; sizes plan elements - windows and doors; identifies key structural elements	<input type="checkbox"/>
Basic Drafting Including: produces: orthographic and isometric drawings; flow and assemble drawings, duct layout schematics	<input type="checkbox"/>
Construction Basics Including: Understands construction types, framing principles, insulation values and impacts, air barriers	<input type="checkbox"/>
Fundamentals of Heat Loss and Gain Including: Uses R & U values in heat loss/gain calculations; performs heat loss/gain calculations; applies winter/summer design tables	<input type="checkbox"/>
Basics of Electrical and Wiring Including: reads and interprets diagrams, wires a class 2 control circuit; feeds to load and breaker and branch circuit wiring	<input type="checkbox"/>
Ventilation Including: Understands and applies ventilation code and ventilation requirements	<input type="checkbox"/>
Basic Heating Including: Understands heat distribution systems, environment considerations	<input type="checkbox"/>

Please indicate percentage of work performed in each area. Only Hydronics or Forced Air is required.

LEVEL 2 - HYDRONICS

System Design Including: calculates heat loss, designs radiant panels, sizes - pump, expansion tank boilers, applies	%
Heat Recovery Ventilator Including: designs HRV layouts	%
Installation Practices Including: plans and installs hydronic heating systems including all components and commissioning	%
Controls Including: Evaluates control strategies and design control systems; prepares ladder diagrams; installs and commissions control system	%
Cross Connection Control Including: select, install and test appropriate devices to prevent backflow	%
Servicing & Troubleshooting Including: troubleshoots using standard practice; tests equipment; repairs and services	%


Thermal Environmental Comfort Association (TECA)

BC Toll Free Phone: 1-888-577-3818 Fax: 1-888-577-3137 E-mail: training@teca.ca

Mail: PO Box 73105, Evergreen RO, Surrey, BC, V3R 0J2 Website: www.teca.ca

TRANSITION PERIOD "CHALLENGER"
CERTIFICATE OF QUALIFICATION PRE-APPLICATION
Certified Heating Technician

Please indicate percentage of work performed in each area. Submit this form with Page 1. Only Hydronics or Forced Air is required.

LEVEL 2 - FORCED AIR

Quality First Forced Air Guidelines	%
Including: uses winter and summer design tables; completes calculations and Quality First worksheets; applies special considerations	
Equipment	%
Including: understands and applies duct work systems; hot water tanks, fireplaces, air conditioning and heat pumps, refrigeration, airfilters	
System Design	%
Including: applies principles of basics of air and movement; knows architectural limitations; knows and selects appliances, places grills and supply and return air ducts; completes system design packages for municipalities, zones heating and cooling equipment	
Ventilation Requirements	%
Including: uses a variety of ventilation equipment; designs and layouts ducting and distribution systems for ventilation; installs make-up air systems; conducts depressurization tests	
Installation and Sheet Metal	%
Including: plans and installs forced air heating and cooling systems including all components and commissioning, routing, sizing; material ordering, take-offs, custom fitting design	
System Controls	%
Including: evaluates control strategies and designs control systems; uses class 2 wiring for HVAC equipment; wires equipment and accessories	
Servicing & Troubleshooting	%
Including: troubleshoots using standard practice; tests equipment; repairs and services; uses safety shutdowns; performs preventative maintenance	

Thermal Environmental Comfort Association (TECA)

BC Toll Free Phone: 1-888-577-3818 Fax: 1-888-577-3137 E-mail: training@teca.ca

Mail: PO Box 73105, Evergreen RO, Surrey, BC, V3R 0J2 Website: www.teca.ca