

PRE-EXAM CHALLENGE TRAINING

PETERBOROUGH, COMFORT HOTEL, 1209 LANSDOWNE ST. W

2026 TH, FR, SA TH, FR, SA TH, FR, SA
AUG. 13, 14, 15 & 20, 21, 22 & 27, 28, 29

DETAILS:

- Intensive in-class study of:
 - Safety
 - Thermodynamics: 1st and 2nd Law
 - Gas laws: Boyle, Charles, Dalton
 - Pascal's Law
 - Psychrometrics: DB WB DP RH
 - Pressure Enthalpy Charts
 - Terminology
 - Endotherm/Exotherm
 - Sensible Heat
 - Latent Heat
 - Super Heat
 - Sub-Cooling
 - Evaporator Saturation
 - Condenser Saturation
 - Exposure Time/Contact Time
 - Miscibility/Solubility
 - Fractionation
 - Flooding/Starving
 - Refrigerants, Zeotropes Azeotropes
 - CFC HCFC HFC HC
 - Lubricants: MO POE PAG AB
 - Compression cycle theory
 - Brazing, sweeping, purging
 - Pressure testing
 - Evacuating, triple flushing
 - Recovery, Recycling, Reusing
 - Hermetic compressors
 - Electrical theory, power, controls
 - Split phase motors: ISIR PSC CSIR CSCR
 - ECM motors and electronic controls
 - Heat pumps, ASHP, GSHP
 - Causes of evaporator freeze up
 - Confirming correct charge
 - Confirming compressor failure
 - Causes of compressor failure
 - TX valves, Metering orifices
- 10 Intensive practice exams
 - More than 800 different practice questions
 - Full student topical analysis on first day

**IMPORTANT:**

- For any technician in Ontario who installs and/or services air condition systems and/or heat pump systems in a residence (both new construction and renovation) it is mandatory to hold a certificate of qualification as a 313D Residential Air Conditioning Systems Mechanic.
- Experienced technicians who have at least 4500 hours (2.5 years) of field experience, and have been adequately trained, are allowed to challenge the provincial exam for 313D certification.
- PETTITECH provides focused, comprehensive training for full preparation for the provincial exam.

COSTS: 13% HST TOTAL
 \$2203.54 + \$286.46 = **\$2490.00**

TEXTBOOK: HEATING & COOLING ESSENTIALS: G.W.
 \$230.09 + \$29.91 = **\$260.00**

website: www.pettitech.com email: info@pettitech.com

CALL OR TEXT BECKY: 519 270 8645 or GORD: 519 372 4615

