



Third-Party Quality Control (TPQC) Certification

Training Levels for TPQCP Installers

Level	TPQCP Installers	Certification
1	Duct Sealing	T-24 (New), T-24 (Change-outs) and VSP
2	Refrigerant Charge	VSP
3	Adequate Airflow	T-24 (New) and VSP
4	Building Envelope Sealing	T-24 (New)

Training will include certification of TPQCP installers in the compliance requirements, testing standards and test equipment. Training will include as follows:

a. Level 1:

- Compliance requirements for new construction and additions and alterations
- HVAC mandatory and prescriptive measures
- TPQCP participation standards
- TPQCP sampling and corrective action for failures
- Test standards and procedures for new construction and additions and alterations
 - Determining airflow for duct testing
 - The four duct testing and certification options for residential
 - The three duct testing and certification options for nonresidential
 - Labeling requirements for duct testing results
- Alternatives to duct testing for additions and alterations
- Site preparation for duct testing
- Equipment setup for duct testing
- Equipment requirements and setup of electronic data collection system for TPQCP
- Compliance forms (CF-6R and MECH-5-A)
- Detrimental effects of duct leakage on occupant health and equipment efficiency

b. Level 2:

Because of limitations of the refrigerant charge test procedure, this certification procedure will probably be limited to VSP only.

- Compliance requirements and test procedures
 - Standard Charge Measurement Procedure
 - Superheat Charging Method
 - Subcool Charging Method and Limitations
 - Temperature Split Test Method for airflow certification
- Site preparation for refrigerant charge measurement and certification of airflow across the evaporator coil.
- Equipment setup for refrigerant charge measurement and airflow certification
- Equipment requirements and setup of electronic data collection system

c. Level 3:

- Compliance requirements, test standards and test procedures
 - Diagnostic Fan Flow Using Flow Capture Hood
 - Diagnostic Fan Flow Using Plenum Pressure Matching
 - Diagnostic Fan Flow Using Flow Grid Measurement
- TPQCP participation standards
- TPQCP sampling and corrective action for failures
- Duct design requirements
- Site preparation for adequate airflow certification
- Equipment requirements and setup of electronic data collection system for TPQCP
- Compliance forms (CF-6R)

d. Level 4:

- Compliance requirements, test standards and test procedures
 - Blower Door
- TPQCP participation standards
- TPQCP sampling and corrective action for failures
- Site preparation for blower door testing
- Equipment setup for blower door testing
- Equipment requirements and setup of electronic data collection system for TPQCP
- Compliance forms (CF-6R)