

Heat Pump Installer Training

Required Topics

These are the topics that must be included in the Heat Pump Installer Training course (Installer #1.b. above). The training must include both classroom instruction and hands-on exercises that address the following:

1. Installation
 - a. Efficiency Maine [Heat Pump Installation Requirements Checklist](#)
 - b. Indoor units
 - c. Outdoor units
 - i. Mountings (brackets and stands)
 - d. Line sets
 - i. Flaring
 - ii. Mechanical connections (like ZoomLock)
 - iii. Refrigerant handling safety
 - iv. Vacuum testing
 - v. Purging with nitrogen
 - vi. Pressure testing
 - vii. Leak detection with soap bubbles and electronic testers
 - viii. Calculating refrigerant requirements
 - ix. Charging refrigerant
 - x. Adding additional refrigerant
 - xi. Branch boxes
 - e. Condensate lines / condensate pumps
 - f. Ductwork (optional)
 - i. Sealing
 - ii. Insulating
 - g. Thermostats/controls
2. Commissioning
 - a. All modes
 - b. Condensate flow with fan running (testing for dips that create blockages)
3. [Heat Pump User Tips](#) brochure
4. Service
 - a. Troubleshooting
 - b. Manufacturer resources
 - c. Pumping down refrigerant into outdoor unit
 - d. Refrigerant recovery



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5. Efficiency Maine Topics (Efficiency Maine presenters available)
 - a. [Rebates](#)
 - b. [Home Energy Loans](#)
 - c. [Brochures](#)
 - d. [Rebate Requirements](#)
 - e. Inspections
 - f. [Vendor Support](#)
 - g. [Becoming a Residential Registered Vendor](#)

Optional Resources:

1. Efficiency Maine [website](#)
2. [Efficiency Maine Annual Heat Pump Basics Certificate](#) on-line video
3. NEEP's Guide To Installing Air-Source Heat Pumps in Cold Climates by NEEP click [here](#)