BuildAnInstaller™

The BuildAnInstaller program is an intense, two-week program designed to provide your new hire with the knowledge and confidence to install a system your company can be proud of.

The class agenda below explains how Lennox learning Solutions can mold any installer from little to no experience to a certified HVAC installer.

BuildAnInstaller Agenda (Week One)

Day One Theory:

- Safety
    - Personal
    - Job site
    - Tools and equipment
    - Handling pressurized cylinders
    - Brazing and fire
- Technician Communication
    - Proper appearance
    - Communication
    - Record keeping

Day Two Theory:

- Wiring projects
    - Wiring to loads
    - Wiring switches
    - Wiring Thermostats
        - Gas electric
        - Heat Pump
    - Wiring accessories
        - Float switches
        - Condensate pumps
        - High and low pressure switches
        - Hard start kits
        - Electrical checks on units

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Day Three Theory:

- Basic Refrigeration
    - Superheat
    - Sub-cooling
    - Fixed metering devices
    - TXV metering devices
    - Approach
    - Charging charts
    - Typical pressures
    - Typical temperatures
    - Using typical value charts

Day Three Lab Assignment:

- Hands on Checking of
    - Superheat
    - Sub-cooling
- Checking charge using
    - Superheat
    - Sub-cooling
    - Approach
- Determining types of metering devices

Day Four Theory:

- Gas heating
    - Basic gas combustion
    - 80% operation and venting
    - 90% operation and venting
    - Single and multi-stage operation
    - Gas pressure adjustment
    - Combustion analysis

Day Four Lab Assignment:

- Check and adjust gas pressures on single and multi-stage furnaces
- Perform combustion analysis on both 80% and 90% furnaces

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- Measure temperature rise
- Adjust blower speeds based on temperature rise

Day Five Theory:

- EPA Exam
- Recovery of refrigerant
- Measuring liquid line and weighing in charge
- Brazing
- Dryers and filters

Day Five Lab Assignment:

- Recover refrigerant in system
- Calculate charge and weigh in refrigerant
- Hands-on brazing projects

Build-An-Installer Agenda (Week Two)

Day One Lab Assignment:

- Uninstall multiple Air Conditioning Systems
    - Recover refrigerant from entire system
    - Disconnect tubing at condenser and evaporator
    - Disconnect high voltage wiring (install new disconnect)
    - Disconnect low voltage wiring
    - Disconnect condensate drain
    - Remove condenser and evaporator

Day Two Lab Assignment :

- Uninstall multiple Furnaces
    - Disconnect vent system
    - Disconnect high voltage wiring
    - Disconnect low voltage wiring (run new wiring)
    - Disconnect condensate drain (90%)
    - Disconnect gas piping
    - Remove furnace

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Day Three Lab Assignment:

- install multiple furnaces
    - Connect vent system
    - Connect high voltage wiring
    - Connect low voltage wiring
    - Connect condensate drain
    - Connect gas piping

Day Four Lab Assignment:

- install multiple air conditioning systems
    - Connect tubing at condenser and evaporator
    - Connect high voltage wiring (install new disconnect)
    - Connect low voltage wiring
    - Connect condensate drain

Day Five Theory:

- NATE Installer Technician Exam