

CONNECTICUT STATE APPRENTICESHIP COUNCIL
Connecticut Department of Labor

ENERGY EFFICIENCY TECHNICIAN – 959.367.018
Work Schedule

The following schedule of work experience is intended as a guide. It need not be followed in any particular sequence, and it is understood that some slight adjustments may be necessary in the hours allotted for different work experience. In all cases, the apprentice is to receive sufficient experience to make him fully competent in all work processes which are a part of the trade. The apprentice will be fully instructed in safety and OSHA requirements.

A. Energy Basics: Tools, Instruments, Materials (150 HOURS)

1. Familiarization with contents of energy auditor's tool kit
2. Care and proper use of diagnostic tools and instruments
3. Familiarization with different types of energy conservation materials, such as: caulk, expanding foam, cellulose, etc.
4. Understanding different fuel types, their units of measurement, and BTU
5. Identifying peak demand savings opportunities; identifying anomalies
6. Understanding different energy market players (utilities and other energy suppliers) and most basic rate structures

B. Interviewing Client (150 HOURS)

1. Presenting oneself in a pleasant, professional manner
2. Establishing rapport and explaining benefits of audit and energy conservation
3. Interviewing client to obtain detailed information about their energy use and needs (heat, light, hot water, appliances, etc.)

C. Inspecting Client's Home (1000 HOURS)

1. Inspecting fit of windows and doors
2. Checking adequacy of wall and ceiling insulation
3. Inspecting insulation on piping and ductwork
4. Examining heating distribution for balancing needs/opportunities (no actual performance of testing and balancing work)

5. Demonstrating awareness of higher-efficiency heating system for possible replacement
6. Demonstrating knowledge of minimum ventilation rates
7. Checking attic ventilation and compliance with local code for attic vents (where applicable and appropriate)
8. Identifying vapor barriers (where applicable and appropriate)
9. Calculating R values (where applicable and appropriate)
10. Checking home appliances for age and efficiency
11. Looking for system optimization opportunities via: set-back thermostats, operating strategies, and proper application (no work performed)
12. Demonstrating knowledge regarding differentiating between perceived vs. real savings opportunities

D. Making Recommendations to Client (300 HOURS)

1. Advising client on how to operate appliances and equipment most efficiently
2. Advising client on desirable maintenance procedures and schedules
3. Recommending specific improvements such as: adding weather-stripping, installing insulation, replacing windows
4. Educating client about life-cycle costing
5. Providing client with rough estimates of costs of improvements and possible sources of financing

E. Making Minor Improvements (200 HOURS)

Performing minor improvement work such as:

1. Carrying out minor air sealing work – e.g., caulking and weather-stripping
2. Installing smoke and carbon monoxide Detectors (battery operated only)
3. Other improvements of a minor nature

F. Related Instruction (200 HOURS)

TOTAL HOURS = 2000