

IHACI'S 2010 CALIFORNIA QUALITY INSTALLATION, MAINTENANCE AND SERVICE TRAINING PROGRAM

IHACI's new 2010 California QI/QM/QS training program consists of 22 classes divided into the following 6 modules:

1. AC/HP Refrigeration Module (4 classes)
2. Air Distribution Module (4 classes)
3. Electrical Module (4 classes)
4. Gas Heating Module (2 classes)
5. System Diagnostics Module (4 classes)
6. System Performance Module (4 classes)

CLASS DESCRIPTIONS

AC/HP/REFRIGERATION MODULE

This four-part series will take participants through comprehensive survey of all areas required to properly design, install, commission, maintain, service, diagnose and verify that the air conditioning and heat pump systems they are working on are operating as efficiently as possible. Participants will be given the skill sets and tools required to insure that the HVAC systems they work on are safe, reliable and operating at the highest capacity and energy efficiency possible.

AIR DISTRIBUTION MODULE

This four-part seminar starts with the practical fundamentals and theory behind basic air distribution systems, and it systematically moves through the process involved for quality installation, maintenance and service of residential and light commercial air distribution systems as they apply to the California HVAC/R market. Nights 3 and 4 offer hands-on construction and testing of an HVAC air distribution system.

This four-part series will take participants through a comprehensive survey of all areas required to properly design, install, commission, maintain, service, diagnose, and verify that their air distribution systems re operating as efficiently as possible. Participants will be given the skill sets and tools required to insure that the HVAC air distribution systems they work on are safe, reliable and operating at the highest capacity and energy efficiency possible. Participants will build and test an actual air distribution system.

ELECTRICAL MODULE

The CAQI/QM/QS Electrical Module teaches the fundamentals of electricity, as well as the power circuits, control circuits, and electronic circuits used in the HVAC industry. It also teaches the typical devices motors, compressor, controls, and thermostats used in and an HVAC system, and diagnosis and troubleshooting procedures for these devices. This four-part seminar starts with the practical fundamentals and theory behind basic electricity and it systematically provides its participants with knowledge of electrical symbols, components, wiring diagrams, electronics and electrical systems. Participants

will be exposed to the comprehensive skill sets required to properly install, commission, maintain, service, diagnose and verify that the electrical systems they are working on are safe, reliable and operating at the correct settings, for the highest energy efficiency possible.

GAS HEAT MODULE

This two-part seminar starts with the practical fundamentals and theory behind gas combustion and systematically moves through the process involved for Quality Installation (QI), Quality Maintenance (QM) and Quality Service (QS) of gas systems as they apply to the California HVAC market (CAQI/QM/QS)

This seminar series takes participants through a comprehensive survey of all areas required to properly design, install, commission, maintain, service, diagnose, and verify that their gas systems are operating as efficiently as possible.

SYSTEM DIAGNOSTICS MODULE

This four part seminar starts with the fundamentals and theory behind the residential and light commercial diagnostic process and covers all aspects of the HVAC system including the mechanical, electrical, refrigeration, air distribution, gas, venting, condensate, indoor air quality, and whole house concept sections. Operating aspects of Quality Design (QD), Quality Installation (QI), Quality Maintenance (QM), Quality Service (QS), and ultimately Quality Performance (QP) as they apply to the California market (CAQD/CAQI/CAQM/CAQS/CAQP) and the diagnostic process will be covered as well. This seminar will equip its participants with the broad skill sets required to properly obtain, record, evaluate, analyze, identify, and eliminate all operating problems reported and revealed thru the diagnostic process, and concludes by verifying that the HVAC systems they are working on are safe, reliable and operate at the highest capacity and energy efficiency possible.

SYSTEM PERFORMANCE MODULE

This four-part seminar starts with the fundamentals and theory behind residential and light commercial HVAC system performance with an overview of Quality Design, Quality Installation, Quality Maintenance, and Quality Service as applied in the California market (CAQD/CAQI/CAQM/CAQS). It also introduces and details the “whole house” concept, outlines the instruments and field techniques required to measure HVAC system performance, and discusses how to “problem solve” issues discovered. This seminar helps give its participants the complete skill sets required to understand and evaluate the whole HVAC system and provide the client with an HVAC system that will be safe, reliable and operating at the highest capacity and energy efficiency possible.