



BASIC AIR CONDITIONING & REFRIGERATION



TRAINING DESCRIPTION:

This 2-day seminar has been designed to give the attendee a broad introduction to the most common and important components, principles, and concepts used in air conditioning and refrigeration systems. You will be trained by a field experienced, Lewellyn Technology instructor. Upon completion of this seminar you will have a solid knowledge of basic air conditioning and refrigeration systems, the components and accessories used in these systems, and an understanding of the electrical considerations necessary for making these systems work. *The last 2 hours of this course will be dedicated to EPA testing.

(EPA certification requires the attendee to pass a test administered by the instructor at the end of the seminar. While every attempt is made to provide our attendees with a high quality education, Lewellyn Technology does not guarantee that all attendees will pass this test. It is highly recommended that attendees study on their own in addition to taking these seminars.)

TRAINING TOPICS:

DAY 1

- BASIC TERMINOLOGY & SAFETY
- THE BASIC CYCLE
- ESSENTIAL COMPONENTS
- COMPRESSORS
- CONDENSERS
- EVAPORATORS
- METERING DEVICES
- SYSTEM ACCESSORIES
- RECEIVERS
- ACCUMULATORS
- SIGHT GLASSES
- OIL SEPARATORS
- SYSTEM TUBING
- OIL RETURN
- DESIGN PRINCIPLES

DAY 2

- ELECTRICAL CONSIDERATIONS & SAFETY
- METERS
- OHM'S LAW & POWER
- SYMBOLS
- CIRCUIT LOGIC AND WIRING DIAGRAMS
- ELECTRICAL POWER
- THERMOSTATS
- RELAYS
- CONTACTORS
- CIRCUIT PROTECTORS
- SINGLE PHASE VS. THREE PHASE
- EPA SECTION 608 UNIVERSAL TEST

CLASS DISCUSSION AND REVIEW



CLASS SIZE: UP TO 20
CLASS LENGTH: 12 HOURS
CLASS NUMBER: S_F112

