

## EFFICIENCY THROUGH EDUCATION

HBEA's Education Program consists of three optimal ways to train: 1) Lunch time courses in Basic Electrical, Basic Air Conditioning, Electricity for Air conditioning, Motors and Maintenance Math are one hour per day for five days at Topa Financial Center or another building in the downtown area. 2) Online training with HVACR as listed on the website and TPC web seminars 3) take home courses with an assigned mentor to assist students.

### **Lunch Time Courses**

Traditional classroom environment with instructor and books supported by Power Point presentations including practical and hands on applications.

Cost for five day class:

Math	\$100 per student
All others	\$200 per student

Books are available for students with option to purchase books through our supplier. Great networking opportunities.

Diploma awarded upon completion of course.

### **1/2 DAY CLASS**

Understanding building systems

Course designed to teach Property Managers that need to learn the basic essentials of how systems work.

Topics include:

Roofs – Green	Waste water systems
Building envelope	Fire protection / life safety
Elevators	Electrical distribution
Air conditioning systems	Lighting
Water systems	Energy reduction and sustainability

Course book: Mechanical and Electrical Equipment for Buildings 9<sup>th</sup> edition, Benjamin Stien and John S. Reynolds

Cost: \$ 125 per person includes lunch

## **Online Courses**

HVACR - online testing available to students through a third party – cost is dependent on the course. HBEA offers a 20% savings for members. Normal online cost is \$185.00, and requires Internet access and a computer.

Outstanding online learning for those who serve the HVACR industry. Study in-depth content that has been developed to meet NATE ([www.natex.org](http://www.natex.org)) and ARI ([www.ari.org](http://www.ari.org)) Competency Guidelines.

## **Benefits**

Save Time/no travel  
Save money  
Helpful online experts  
Classes/learning that fit your schedule  
NATE recognized CEU's  
Highly engaging content  
Ideal for the New Generation of technicians  
Excellent for group training

In-depth training for HVAC or Facilities Maintenance Technicians in a variety of areas:

HVAC Fundamentals  
HVAC Electrical  
HVAC Systems  
HVAC Gas or Oil Heating  
Refrigeration  
HVAC Controls  
Boilers  
Heat Pumps and Accessories  
Hydronics

## **Take Home Courses**

All Basic Electricity, Basic air conditioning, electricity for air conditioning  
Take home courses \$250 each with assigned mentor. Test for comprehension.

- Diploma awarded upon passing grade of 75%. Time limit to complete 6 months.

## **Certification Test**

Certification test available for advancement recognized for proficiency in the maintenance field. Individuals earn Certification by satisfying all the requirements and competency in testing, diagnosing and specializing in areas related to the industry. Certification is verified through written examinations and verification of experience by employers.

Certification is broken down by years in the field and knowledge of the maintenance industry.

All students take the basic Level 3 exam. Based on scoring, the student is placed in Level A, B, or C.

Level:

- (A) passing level 85% or better
- (B) passing level <85%, >75%
- (C) passing level below 75%

Cost for test is \$150. Students may re-test at a cost of \$50 per re-test.

### **Intermediate Test**

Intermediate test available – after passing Level 3 with a score of 75% or better.  
Cost \$150. Re-test \$50 per re-test

Categories as follows:

Level:

- (A) passing level 85% or better
- (B) passing level <85%, >75%
- (C) passing level below 75%

### **Chief Engineer**

Chief Engineer test available after passing Level 2 Certification Test with an 85% or better mark and recommendation from employer for Board approval based on experience.

Retest - \$75 - wait period one week.

All study material available for Certification. Additional cost \$150.

All courses for Certification require prerequisites: 1) letter from employer stating employee has met required hours of hands on training in the field. 2) Courses taken equal or better than HBEA required courses, 3) Liability waivers and other documents.

### **2009 Lunch Time Course Schedule – 12:00 Noon to 1:00pm**

<b>Month</b>	<b>Basic Electricity (Day of Month)</b>	<b>Basic Air Conditioning (Day of Month)</b>	<b>Maintenance Math (Day of Month)</b>
<b>January</b>	5		
<b>February</b>			9
<b>March</b>	2	9	
<b>May</b>	4	11	
<b>July</b>	6	13	
<b>September</b>	2	9	
<b>October</b>			5
<b>November</b>	4	11	