



## Registration Information for Stationary Engineers Apprenticeship School **Spring 2025**

**Where:** **Spring Semester 2025 WILL BE IN PERSON AT HOUSTON COMMUNITY COLLEGE**

**When:** **Online Registration Now**

**Registration** **Online only at [seashouston.org](http://seashouston.org)**

**Cutoff Date:** **Thursday, December 19<sup>th</sup> at Midnight**

**Fees:** All tuition fees are due at time of registration. Students will not be issued text books nor allowed to attend classes without payment. Payment via credit card or via check.

**Costs:** First Time Student BOMI Registration Fee and SMT designation: \$225

SMA designation, a secondary credential enrollment fee of \$100.00

Courses 1, 2, 3, 4 & 5 are \$780/per course. Courses 6, 7 & 8 are \$980/per course.

**Course Length:** Each semester is 16 weeks long. There are (2) semesters per year.

| Course # | Course Title                                      | Cost  | Course Start Date | Course Start Time             | Course End Date |
|----------|---|-------|-------------------|-------------------------------|-----------------|
| Course 1 | Boilers, Heating Systems and Applied Mathematics  | \$780 | January 21, 2025  | Tuesday<br>6 pm to 9 pm       | May 13, 2025    |
| Course 2 | Refrigeration Systems and Accessories             | \$780 | January 22, 2025  | Wednesday<br>6 pm to 9 pm     | May 14, 2025    |
| Course 3 | Air Handling, Water Treatment, & Plumbing Systems | \$780 | January 21, 2025  | Tuesday<br>6:00 pm to 9:30 pm | May 13, 2025    |
| Course 4 | Electrical Systems and Illumination               | \$780 | January 23, 2025  | Thursday<br>6 pm to 9 pm      | May 15, 2025    |
| Course 5 | Energy Management & Controls                      | \$780 | January 22, 2025  | Wednesday<br>6 pm to 9 pm     | May 14, 2025    |
| Course 6 | Building Design and Maintenance                   | \$980 | January 21, 2025  | Tuesday<br>6 pm to 9 pm       | May 13, 2025    |
| Course 7 | Managing the Organization                         | \$980 | January 23, 2025  | Thursday<br>6 pm to 9 pm      | May 15, 2025    |
| Course 8 | Environmental Health and Safety Issues            | \$980 | January 23, 2025  | Thursday<br>6 pm to 9 pm      | May 15, 2025    |

### A FEW THINGS TO NOTE:

- Due to current attendance levels, **only one course per semester may be taken.**
- **Spring Semester 2025 will be held in person at Houston Community College.**
- Each semester is 16 weeks long. There are 2 semesters per year [Fall and Spring Semester].
- **Student registrations must be paid in full prior to the first night of class or you will not be issued text books nor allowed to attend class.**

### PLEASE MAKE CHECKS PAYABLE TO:

Stationary Engineers Apprenticeship School (or S.E.A.S.)



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**MAILING A PAYMENT. PLEASE NOTE EITHER THE INVOICE # OR STUDENT'S NAME ON ALL CHECKS AND SEND TO:**

SEAS

P.O. Box 6084

Katy, TX 77491-6084

### **FOR MORE INFORMATION, PLEASE CONTACT:**

SEAS Training Director

Anthony Gibson

281-704-9676 or [anthony.gibson@hccs.edu](mailto:anthony.gibson@hccs.edu)

**Website:** [seashouston.org](http://seashouston.org)

## **SMT DESIGNATION INFORMATION**

### **COURSE 1: Boilers, Heating Systems and Applied Mathematics**

Principles of mathematics that are essential to the operating building systems are taught. Examine the inner workings of boilers, burners, controls, fittings, valves, and pumps, as well as how they connect and interrelated equipment.

### **COURSE 2: Refrigeration Systems and Accessories**

Maintaining the proper comfort level in an office environment is essential for tenant satisfaction. Refrigeration equipment is a key component of an air conditioning system and must be properly maintained and operated at maximum efficiency. This course covers several types of refrigeration systems.

### **COURSE 3: Air Handling, Water Treatment, and Plumbing Systems**

The fundamentals of human comfort and the components of HVAC systems. Air cleaning devices and indoor air quality concerns are addressed. Water conditioning and treatment, along with plumbing systems, are discussed in the light of present and emerging technology. Fire protection and alarm systems complete the diverse systems reviewed here.

### **COURSE 4: Electrical Systems and Illumination**

Safely operate and maintain a building's electrical equipment, thoroughly understand the components of electrical systems and how to measure the electrical consumption of your building. How to maintain electric motors and light fixtures.

### **COURSE 5: Energy Management & Controls**

This course will provide a working knowledge of the controls and energy management systems used in typical applications. Developing energy teams to evaluate and monitor energy usage. Preventive Maintenance programs to enhance your properties value and tenant satisfaction.

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## **SMA DESIGNATION INFORMATION**

### **COURSE 6: Building Design and Maintenance**

If you are involved in the repair and replacement of structural items such as floors, ceilings, interior walls, and windows, you need a basic understanding of building design, materials, codes, and structural systems and finishes. You need to be familiar with maintenance procedures and equipment, grounds maintenance, and preventive maintenance.



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### **COURSE 7: Managing the Organization**

Focus on leadership skills, oral communication techniques and motivational team-building strategies. Students learn about planning, organizing, scheduling, delegating, budgeting and documenting. This course will help students develop skills in the following areas: prioritization, needs analysis, resource development, resource management and time management.

### **COURSE 8: Environmental Health and Safety Issues**

Manage buildings more effectively and to understand and comply with an ever-increasing number of regulations. This course will give an overview of the issues involved with government regulations covering indoor air quality, asbestos, hazard communication, hazardous waste, water pollution control, EPA and OSHA Regulations