

## **(H84) Certificate**

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This program is designed to prepare students for employment in heating and air conditioning service work.

### **Work and Employment**

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The technician is an entry-level position. The program graduate will troubleshoot and repair heating and air conditioning systems. The technician will be required to use and have knowledge of special testing equipment. Work conducted as an entry-level technician is usually supervised by a seasoned professional.

### **Special Considerations**

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The technician must be able to work in wide range of environments including a construction type environment and finished residential and light commercial buildings. The technician must be able to lift 50 pounds frequently and 80 pounds occasionally.

### **Program Contacts at Sauk Valley Community College**

Counseling Office, 815/835-6354;

Christopher Carlson, Assistant Professor of HVAC, 815/835-6221.

### **Major Field Requirements**

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- ELT 160 - Fundamentals of Electricity 3 Semester hour(s)
- HRS 100 - E.P.A. Certification .5 Semester hour(s)
- HRS 105 - Refrigeration Principles 3 Semester hour(s)
- HRS 114 - Sheet Metal Fabrication 3 Semester hour(s)
- HRS 120 - Basic Refrigeration 3 Semester hour(s)
- HRS 130 - Basic Heating 3 Semester hour(s)
- HRS 160 - Heat Pumps 3 Semester hour(s)
- HRS 170 - Hydronics 3 Semester hour(s)
- HRS 260 - Installation 3 Semester hour(s)
- IND 116 - Industrial Print Reading 3 Semester hour(s)

Elective

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(EET, ELT, ENE, HRS. or IND course) 3 Semester hour(s)

Total Hours Required for Certificate: 30.5

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### **Suggested Program**

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First Semester - Sem/Hrs: 12

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- ELT 160 - Fundamentals of Electricity 3 Semester hour(s)
- HRS 105 - Refrigeration Principles 3 Semester hour(s)
- HRS 114 - Sheet Metal Fabrication 3 Semester hour(s)
- IND 116 - Industrial Print Reading 3 Semester hour(s)

Second Semester - Sem/Hrs: 12.5

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- HRS 100 - E.P.A. Certification .5 Semester hour(s)
- HRS 120 - Basic Refrigeration 3 Semester hour(s)
- HRS 130 - Basic Heating 3 Semester hour(s)

- HRS 160 - Heat Pumps 3 Semester hour(s)
- HRS 170 - Hydronics 3 Semester hour(s)

Third Semester - Sem/Hrs: 6

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Elective (EET, ELT, ENE, HRS, or IND course) 3 Semester hour(s)

- HRS 260 - Installation 3 Semester hour(s)

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