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# **AMMONIA REFRIGERATION LEVEL III**

## ***“An In-Depth Discussion of Ammonia Refrigeration Systems”***

The course uses Industrial Refrigeration 3 (published by The Refrigerating Engineers & Technicians Association) as a textbook. In addition to the in depth coverage of the text, additional information (Manufacturers’ literature, other text, articles, videos, and bulletins) will be covered during the course.

The course syllabus includes:

### **COMPRESSORS**

This section covers historical compressors, vertical single-acting compressors, V/W configuration multi-cylinder compressors, sliding vane rotary compressors, and screw compressors. It also covers compressor installation, alignment, service and maintenance.

### **COOLING TOWERS and CONDENSERS**

This discussion centers around the historical beginnings of the cooling tower, and the ultimate development of the evaporative condenser. It also discusses condenser theory and design, comparing and contrasting the efficiencies and costs of differing designs such as forced-air condensers, water cooled condensers, and evaporative condensers.

This seminar is specifically designed for Plant Managers, Operating Engineers, Maintenance Managers, Ammonia System Technicians, ammonia System Operators, and Roundsman. This course is designed for students who have completed the “Industrial Refrigeration Book 2” course. Attendees who have not completed the previous course should have experience in the operation of an Ammonia Refrigeration System, or knowledge of ammonia refrigeration principles.

Seminar reservations may be made by contacting:

Wagner-Meinert, LLC  
260-489-7555

*[www.wagner-meinert.com](http://www.wagner-meinert.com)*

***Refrigeration, Mechanical & Food Process***  
MEMBER OF: IIR-ASHRAE-RETA-MCA-MSCA-NCPWB