

Vacuum Fundamentals

Who should attend?

This course is designed for those individuals in the semiconductor industry who require fundamental knowledge of vacuum theory.

Course Benefits

- Provide technical foundation necessary to work effectively with Applied Materials equipment
- Provide understanding of equipment function, operation, and basic process application for Applied Materials equipment

Course Objective Summary

- Define vacuum
- Describe the importance of vacuum
- Describe the four ranges of vacuum
- Describe the three types of gas flow in a vacuum system
- State the ideal gas law
- Describe the use and basic operating principles of vacuum measurement devices
- Describe the use and basic operating principles of vacuum evacuation pumps
- Define leak
- Describe the types of leaks that occur in a vacuum
- Define seal
- Describe the types of seals used in a vacuum
- Describe how a leak is detected
- Describe the types of tests used to measure leaks in a vacuum system
- Describe how to perform the leak tests used in a vacuum system

Course Modules

1. *Introduction to Vacuum*
2. *Vacuum Measurement Devices*
3. *Vacuum Evacuation Pumps*
4. *Leaks and Seals*
5. *Detecting and Measuring Leaks*

Registration Information

- Prerequisites:** None
Course Length: 3 Hours
Course Type: Web-Based Training
Course Number: TRAW1412b

To enroll or for more information on our products and services, please call our registrar at one of the numbers below or go to www.appliedtraining.com.

- 1-800-468-8888, option 4 (United States)
- 1-512-272-0027 (International)

Computer System Requirements:

Attending this course requires a computer using Internet Explorer 5.5 or higher with the plug-in for Flash Player 9. For the audio portion of the class, headsets or speakers are required. 128MB RAM or higher, high-speed Internet access and a screen resolution of 1024 x 768 are also highly recommended.