

Microcontamination Fundamentals

Who should attend?

This course is designed for those individuals in the semiconductor industry who require the knowledge and skills to perform procedures used to control contamination in the cleanroom and the basic methodology of particle diagnostics and troubleshooting.

Course Benefits

- Increase industry-standard wafer process knowledge, including fundamentals, analysis, and control

Course Objective Summary

- Discuss the reasons to use the systems approach to contamination control
- Name the two generic categories of contamination on a wafer
- Explain the 1/2 rule for killer defects
- Describe the effects of microcontamination on device yield, including mobile ion contaminants
- Define phantom particles
- List at least five sources of particle contamination in a typical fab
- Given a particular wafer size and the edge exclusion, calculate the defect density of a wafer
- Define PWP testing
- List at least four contamination sources in semiconductor processing
- Give the definition of a cleanroom
- Name two types of filters used to clean the environment in a cleanroom

- List at least three methods used to minimize the people-related contamination in a semiconductor fabrication area
- Define what is meant by a Class 1 and a Class 10 cleanroom
- List at least five examples of cleanroom protocol violations
- Name the three modes of particle size distribution
- Explain why we need to understand the forces that act on particles

Course Modules

1. *Microcontamination Overview*
2. *Contamination Control*

Registration Information

Prerequisites:	<i>None</i>
Course Length:	<i>2 Hours</i>
Course Type:	<i>Web-Based Training</i>
Course Number:	<i>TRAW1413b</i>

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.