

Troubleshooting Methodology

Who should attend?

This course is designed for semiconductor technicians or engineers who wish to develop their troubleshooting skills. It provides an in depth study of various troubleshooting methods that enable you to use a systematic and efficient approach to troubleshooting equipment failures and providing solutions. It also shows you how to use failure analysis tools that provide a structure for finding the root cause of a problem.

Course Benefits

Improve ability to troubleshoot complex software and hardware faults to reduce system downtime.

Integrate wafer process issues and hardware or software faults.

Course Objective Summary

- Identify the role and attributes of a troubleshooter
- Define troubleshooting and describe a systematic approach to troubleshooting
- Identify and eliminate obvious factors when troubleshooting
- Identify and describe types of basic troubleshooting methodologies
- Describe the advantages and disadvantages of using basic troubleshooting methodologies
- Identify techniques for isolating malfunction causes and testing solutions
- Describe the purpose of properly documenting processes to determine and correct malfunctions
- Describe the purpose of Root Cause Analysis
- Build a Fishbone Diagram and describe its use in troubleshooting

- Describe the methodology, guidelines and symbols used in the Fault Tree Diagram
- Describe the difference between Fault Tree and Success Tree Analysis
- Identify the path of a component's design and development using the life cycle model
- Describe how the component life cycle model aids in troubleshooting

Course Modules

1. *Troubleshooting Overview*
2. *Basic Methods*
3. *Advanced Methods*
4. *Life Cycle of Components*

Registration Information

Prerequisites:	<i>None</i>
Course Length:	<i>1.5 hours</i>
Course Type:	<i>Web-based Training</i>
Course Number:	<i>TRNWEB-32</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.