Advanced Concepts Training Corporation

(703) 246-9100 Northern Virginia
(804) 285-5830 Central Virginia
(757) 420-3810 Tidewater Area
(800) 294-7497 Toll Free
www.ACTisIT.com

CONTROLLING TCP/IP

Duration: 3 days Course Price: $995

Course Objectives:

Through classroom presentations and workshops, participants will be able to:

- Understand how to design and configure small and medium-sized TCP/IP networks and how to connect these together to form larger networks
- Understand the performance characteristics of various LAN and WAN protocols and how these interact with TCP/IP
- Appreciate the uses of hubs, switches, bridges and routers in fault isolation, fault recovery and balancing traffic flows in networks
- Know how to monitor network activity and use that knowledge to prevent problems before they become serious
- Understand the workings of the Simple Network Management Protocol (SNMP) and of remote monitoring (RMON) and the capabilities of network management packages such as Open View.
- Be able to evaluate the effectiveness of various security techniques such as encryption and firewalls
- Discover how to use load balancing techniques to use existing network resources more effectively
- Appreciate that system tuning involves tuning the network, the servers and the clients as well as the habits of network users

Prerequisites:

Basic understanding of TCP/IP

Who Should Attend:

Analysts, Administrators and network support personnel who are responsible for designing, implementing and running TCP/IP networks.

Course Outline:

This course will place emphasis on:

- Controlling use of available bandwidth on your network
  - Monitoring traffic patterns (RMON, packet sniffers)
  - ICMP quench
  - User authentication
- Controlling what goes in and out
  - Firewalls
- Controlling users and applications running on your network
  - Setting privileges for users and applications
- Testing foreign data for:
  - Freedom from viruses
  - Absence of malicious code