



This is to certify that

Chris FitzGerald

has successfully completed

TCP/IP Introduction and Advanced

Date:  
May 22, 2008

Michael R. Williams  
President

1. Course Introduction
  - 1.1. Course Introduction
  
2. Introduction to TCP/IP
  - 2.1. Lesson Introduction
  - 2.2. The TCP/IP Architecture
  - 2.3. The OSI Reference Model
  - 2.4. Lesson Lab Identifying the TCP/IP Architecture
  - 2.5. Lesson Followup
  
3. Comparing the TCP/IP and OSI Models
  - 3.1. Lesson Introduction
  - 3.2. The OSI and TCP/IP Models
  - 3.3. The OSI and TCP/IP Layers
  - 3.4. Lesson Lab Comparing the TCP/IP and OSI Models
  - 3.5. Lesson Followup
  
4. IP Addressing
  - 4.1. Lesson Introduction
  - 4.2. Fundamentals of IP Addressing
  - 4.3. Allocation of IP Addresses for Private Networks
  - 4.4. ARP, RARP, and Proxy ARP
  - 4.5. BOOTP and DHCP
  - 4.6. DNS and Domain Structure
  - 4.7. Lesson Lab Reviewing IP Addressing
  - 4.8. Lesson Followup
  
5. UDP and TCP Packets, and the IP Protocol
  - 5.1. Lesson Introduction
  - 5.2. The IP Protocol
  - 5.3. The TCP Protocol
  - 5.4. How TCP Handles Connections
  - 5.5. The UDP Protocol
  - 5.6. Lesson Lab Reviewing UDP and TCP Packets, and the IP Protocol
  - 5.7. Lesson Followup

6. TCP and UDP Protocols, Ports, Sockets, and ICMP
  - 6.1. Lesson Introduction
  - 6.2. TCP and UDP Protocols, Ports, and Sockets
  - 6.3. TCP Applications
  - 6.4. UDP Applications
  - 6.5. ICMP
  - 6.6. Lesson Lab Reviewing TCP and UDP Protocols, Ports, Sockets, and ICMP
  - 6.7. Lesson Followup
  
7. Subnetting and IP Routing
  - 7.1. Lesson Introduction
  - 7.2. Subnets and Subnet Masks
  - 7.3. IP Routing
  - 7.4. Distance-vector Routing
  - 7.5. Link-state Routing
  - 7.6. Lesson Lab Reviewing Subnetting and IP Routing
  - 7.7. Lesson Followup
  
8. CIDR/Supernetting
  - 8.1. Lesson Introduction
  - 8.2. CIDR
  - 8.3. EGP and BGP-4
  - 8.4. NAT
  - 8.5. VPN
  - 8.6. Lesson Lab Reviewing CIDR/Supernetting
  - 8.7. Lesson Followup
  
9. IP Multicasting and IPv6
  - 9.1. Lesson Introduction
  - 9.2. IP Multicasting
  - 9.3. IPv6
  - 9.4. Lesson Lab Reviewing IP Multicasting and IPv6
  - 9.5. Lesson Followup
  
10. Course Follow Up