

Networking Technologies

Student Text



Networking Technologies Student Manual

Course 200

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Revision 1.01

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Important Certification Information

Novell guarantees that the certification test based on this course manual will be available for six weeks from the time you acquire the course materials. Thereafter the test may be replaced at any time by one based on an updated version of the course.

Please arrange to take the test within the six-week period.

The certification test for this course is 50-147.

Course Goals and Objectives

Keep the goals and objectives in mind as you prepare to teach this course.

Goals

The goals for this course include the following:

- Familiarize students with the terms and concepts used in the computer networking industry
- Provide students a conceptual framework for other Novell Education courses
- Introduce concepts which can be used to understand computer networks and help students make informed decisions

Objectives

Upon completion of this course, students should be able to do the following:

1. List and describe the three basic elements of computer networking.
2. List and describe five common network services with their associated functions and other aspects.
3. Evaluate implementation of five common network services according to a given organizational scenario.
4. Identify and describe common cable and wireless transmission media with their associated cost, ease of installation, capacity, attenuation, and immunity from interference characteristics.
5. Evaluate implementation of common cable and wireless transmission media according to a given organizational scenario.
6. Identify and describe common network and internetwork connectivity devices.
7. Evaluate implementation of common network and internetwork connectivity devices according to a given organizational scenario.
8. Categorize numerous networking topics and methods using the OSI Reference Model as a conceptual framework.

9. Define numerous terms and concepts used in the computer industry.
10. Use conceptual knowledge of five protocol stacks and a variety of miscellaneous protocols to identify the individual protocols that relate to a given organizational scenario.
11. Relate concepts and definitions to discussions found in randomly assigned industry publications.
12. Identify and describe the five network management functional areas.

Audience

This course was developed as a beginning technical course for CNE candidates.

Students for this course should have a basic knowledge of microcomputer technologies. Participants who do not have a basic knowledge of microcomputers should complete Novell's Microcomputer Concepts for NetWare Users.

This course is not intended to provide detailed information on the technical aspects of setting up or configuring a network.

Time Constraints

The Networking Technologies Course is designed as a three-day presentation with 19.25 hours of instruction.

How to Use This Manual

The Networking Technologies course student manual provides training material for CNE candidates about computer networks. The Networking Technologies student manual is designed to be used in an instructor-led course.

The guide is composed of three sections:

- Front matter
- Body
- Back matter

Front Matter

The front matter of this guide contains information useful in preparing to teach the course:

- Table of Contents
- Course Goals And Objectives
- Audience
- Student Course Materials
- Icons

Body

This manual is composed of fourteen sections. Each section begins with a brief introduction and a listing of the section objectives. It is strongly suggested that you familiarize yourself with the section objectives before the section material is presented. A short summary concludes each section.

Back Matter

The back matter in this manual includes appendixes, glossary, and an index.

Section 14 Management Considerations

Introduction	14-1
Objectives	14-1
Functional Areas of Network Management	14-2
Written Exercise 14-1: Management Considerations Review	14-9
Summary	14-10

Appendix A

Answers to Section Exercises	A-1
------------------------------------	-----

Appendix B

Perforated Pages.....	B-1
-----------------------	-----

Appendix C

Text Excerpts.....	C-1
--------------------	-----

Appendix D

Simplistic Protocol Transactions.....	D-1
---------------------------------------	-----

Appendix E

Reference List	E-1
----------------------	-----

Glossary

Index

Notes

Course 200 Networking Technologies

Questions and Answers

This form will help answer any questions that you may have concerning the *Networking Technologies* course and NetWare products.

If you have specific questions that are not answered in class, or that occur to you later, please fill out this form and give it to the instructor at any time. The instructor will answer your questions in class if time allows; otherwise, you will receive the answers by mail.

Name: _____

Company: _____

Address: _____

Date: _____

Questions: _____

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

Course Evaluation

To enable us to better meet your training needs, please evaluate this course and offer suggestions for improving it.

Course Name: **Networking Technologies**

Instructor: _____ Date: _____

Student Name: _____

1. What Novell product do you work with most?
 1. NetWare v2.1x
 2. NetWare v3.x
 3. NetWare ELS
 4. NetWare 2.0a below
 5. Novell Communication Products
 6. Other
2. How many years have you worked directly with computer technology?
 1. Less than 1 year
 2. 1-3 years
 3. 4-10 years
 4. 10+ years
3. How long have you used Novell products?
 1. 1-6 months
 2. 7-24 months
 3. 2+ years
4. Which Novell certification/authorization program are you pursuing?
 1. CNE
 2. Novell Authorized Reseller
 3. CNI
 4. None
5. Which of the following best describes your current job?
 1. Sales Representative
 2. Educator/Trainer
 3. Network Administrator (1-5 LANs)
 4. Network Administrator (6-10 LANs)
 5. Enterprise-wide Network Administrator (10+ LANs)
 6. Field Engineer/Systems Engineer
 7. Programmer
 8. Technical Support (CNE, CNT)

6. How well did you understand the course objectives prior to attending class?

Not Well								Extremely Well	
1	2	3	4	5	6	7	8	9	10

7. This course met the stated objectives.

Strongly Disagree								Strongly Agree	
1	2	3	4	5	6	7	8	9	10

8. I should have taken this course.

Strongly Disagree								Strongly Agree	
1	2	3	4	5	6	7	8	9	10

9. I would recommend this course to my peers.

Strongly Disagree								Strongly Agree	
1	2	3	4	5	6	7	8	9	10

10. This course should be (less/more) technical.

Less Technical								More Technical	
1	2	3	4	5	6	7	8	9	10

11. The correlation between the course content and the job tasks I perform is (low/high).

Low								High	
1	2	3	4	5	6	7	8	9	10

12. The Novell student materials are a useful "after-course" resource.

Strongly Disagree								Strongly Agree	
1	2	3	4	5	6	7	8	9	10

13. The visual aids helped the class presentation.

Strongly Disagree								Strongly Agree	
1	2	3	4	5	6	7	8	9	10

14. This course should have (less/more) "hands-on" work.

Less Hands-on								More Hands-on	
1	2	3	4	5	6	7	8	9	10

15. The equipment at the education center was functional and adequate.

Strongly Disagree								Strongly Agree	
1	2	3	4	5	6	7	8	9	10

16. The course pace was (too slow/too fast).

Too Slow								Too Fast	
1	2	3	4	5	6	7	8	9	10

17. The instructor competently covered the subject matter.

Strongly Disagree								Strongly Agree	
1	2	3	4	5	6	7	8	9	10

18. The instructor established a good rapport with the students.

Strongly Disagree								Strongly Agree	
1	2	3	4	5	6	7	8	9	10

19. The instructor encouraged questions and involved students in class discussions.

Strongly Disagree								Strongly Agree	
1	2	3	4	5	6	7	8	9	10

20. The instructor displayed creativity and enthusiasm in the course delivery.

Strongly Disagree								Strongly Agree	
1	2	3	4	5	6	7	8	9	10

21. I would choose this instructor again if I took another Novell course.

Strongly Disagree								Strongly Agree	
1	2	3	4	5	6	7	8	9	10

22. Include any comments regarding the Novell courseware, the Certified Novell Instructor, or the Novell Authorized Education Center.

23. Include any comments regarding Novell in general that you would like directed to Novell management.