

Course information for Network Technology

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1 About

This course covers the second half of the Cisco CCNA certification, LAN Switching and Wireless and Accessing the WAN [1].

2 Course outlines

The following section will cover the outline of this course.

2.1 Account at Cisco Network Academy

You will use the same account as you used during Network Technology 1. If you have forgot your password or have some other problems using your account,

contact the teacher immediately since if you do not have a working account you will not be able to start this course.

2.2 How to study

You should take the corresponding assessment test for each chapter in the course material you read, if you do not pass this assessment test¹, consult the personalized feedback that is given to you after a completed test for information of what parts you must read again before you retake the test. The assessment tests will *not* affect your final grade in this course. When you have read all the chapters and passed the assessment tests, you will get access to a practice final Exam. This exam covers all the chapters and is similar the real exam you will take (final exam).

It is highly recommended that you have passed all the assessment tests and practice final Exam before attempting to take the final exam.

You must always finish an assessment test if you have started it, otherwise it will lock up, and you will not be able to retake it. Each assessment test can only be taken five times, therefore make sure to practice before each test.

2.3 Examination

During this course you will write two exams (final exams), the first exam will be given half way through the course and covers LAN Switching and Wireless. The second exam will be given at the end of the course and covers Accessing the WAN. *You must pass the first exam before you can start with Accessing the WAN.*

There will be two practical exams in this course that must be done in our network lab in Sundsvall under supervision of the teacher of this course. See 2.4 for more information about this.

There will also be one homework assignment covering all four courses CCNA courses.

If you are more than 15 minutes late for the practical laboratory assignment in the second part of this course, you will not be allowed to start the lab, and must come back the next time. If you will be late due to travel, inform the teacher of this as soon as possible.

2.4 Mandatory meetings on Campus Sundsvall

In this course there are two mandatory meetings in Sundsvall. During these meetings you will take the final exam and a practical exam.

The meeting will take place in our network lab which is located in L-building, room L207. The agenda of these days are as followed:

¹see Table 1 for grades.

- 10:15 – A short introduction and id check off all students.
- 10:30-12:00 – Final Exam
- 12:00-13:15 – Lunch
- 13:15-16:00 – Practical Exam

It is important that you sign-up for attendance to these meetings to secure a seat for that particular day. See the course platform for detailed information on how to sign-up for the mandatory meetings.

If you fail the final exam you can take the re-exam off-campus, see 2.5.2 for more information. If you fail the practical exam you must come back to Sundsvall for the practical re-exam. You are *not* allowed to take this exam using Packet Tracer.

2.5 Taking the exam

You must always sign up for taking the written exam. Depending on how you will take the written exam, see the following sections on how to achieve this.

If multiple dates have been scheduled for one exam, it is because we can not accommodate all students on one day. Select one date when signing up.

2.5.1 On-Campus exam

If you plan to write the exam on campus, sign up for this exam using the method given by the teacher. It will usually be a Doodle sign-up, or with the help of the scheduler function in Cisco Netspace.

2.5.2 Off-Campus exam

If you are going to take the exam off-campus, you need to register for the exam using the Student portal. Carefully read the information in the link given below for detailed instructions about this.

Tentamen på annan ort

Note that you must fill out the form three weeks before the exam. If you hand it in later we can not give any guarantees that we will process your request before the time of the exam.

This information is also available through the student portal under Exam as Exam off-campus.

When contacting another University, study/learning centre, center of adult education or library, make sure to inform them of the exam rules given at 2.6.

You do not have to write the exam on the precise time as it will be given in Sundsvall for this course, since the exam is generated. However it is strongly recommended that you take the exam the same week as it is given in Sundsvall.

2.6 Rules for final exam

The following rules must be followed for this exam.

- The exam will take one hour and fifteen minutes (75 minutes).
- You will need access to a computer with internet access.
- You are *not* allowed to use your own computer for this exam.
- During the exam, only the browser window containing the exam is allowed to be open, all other browser windows must be closed.
- Phones must be turned off, and no talking are allowed once the exam have started.
- See 2.6.1 for allowed aids during exam
- See 2.6.2 for consequences of not following these rules.

For off-campus exams, the following rules must be met as well as the ones mentioned above.

- The exam must be taken under supervision of an approved invigilator.
- The invigilator must check for valid identification of the student that will take the exam.
- The invigilator must contact us after the student have taken the exam or if the student didn't show up.
- If any problem occurs during the exam, contact the teacher of the course by phone or email.

2.6.1 Aids during exam

You are not allowed to use any aids during the exams, except an English-Swedish dictionary, a blank piece of paper and a pen.

2.6.2 Failure to follow the rules

Any attempts of cheating during an exam will directly be reported to the disciplinary committee without a warning. This might result in suspension from your studies for a predetermined time, not exceeding 6 months, due to disciplinary offence.

If you talk during the exam you must abort the exam and come back the next time the exam will be given.

2.7 Grading

The following grading criteria will be used throughout this course.

Table 1: Grading criterias.

| Grade | Score |
|-------|-------|
| E | 70% |
| D | 77% |
| C | 83% |
| B | 88% |
| A | 95% |

The final grade of the course will be set based on the mean value from the final exam scores along with the results from the labs and homework assignments.

3 Course literature

The course literature will be available for free at Cisco netSPACE, however if you prefer to read the material in book form you can buy [2] for LAN Switching and Wireless and [3] for Accessing the WAN.

4 Timetable

See Table 2 on the next page for a complete timetable for the course.

References

- [1] Ccna certification, 2013. URL http://www.cisco.com/web/learning/1e3/1e2/1e0/1e9/learning_certification_type_home.html.
- [2] Wayne Lewis. *LAN Switching and Wireless: CCNA Exploration Companion Guide*. Cisco press, 800 East 96th Street, Indianapolis, IN, 2008. ISBN 978-1-58713-207-0.
- [3] Bob Vachon and Rick Graziani. *Accessing the WAN: CCNA Exploration Companion Guide*. Cisco press, 800 East 96th Street, Indianapolis, IN, 2008. ISBN 978-1-58713-205-6.

Table 2: Timetable based on course given at 50%.

| Week | Chapter |
|------|--|
| 1-5 | CCNA Part three - LAN Switching and Wireless |
| 1 | Chapter 0 – Introduction Chapter 1 – LAN Design Chapter 2 – Basic Switch Concepts and Configuration |
| 2 | Chapter 3 – VLANs Chapter 4 – VTP |
| 3 | Chapter 5 – STP Chapter 6 – Inter-VLAN Routing |
| 4 | Chapter 7 – Basic Wireless Concepts and Configuration Practice Final Exam Final Exam and Lab for CCNA3 |
| 5 | Examination week |
| 6-10 | CCNA part four - Accessing the WAN |
| 6 | Chapter 1 - Introduction to WANs Chapter 2 - PPP Chapter 3 - Frame Relay |
| 7 | Chapter 4 - Network Security Chapter 5 - ACL |
| 8 | Chapter 6 - Teleworker Services Chapter 7 - IP Addressing Services |
| 9 | Chapter 8 - Network Troubleshooting Practice Final Exam Final Exam and Lab for CCNA4 |