

Course information for Network Technology

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1 About

This course covers the first half of the Cisco CCNA certification, Network Fundamentals and Routing Protocol and Concepts [1].

2 Course outlines

The following section will cover the outline of this course.

2.1 Account at Cisco Network Academy

You will receive an e-mail to your student e-mail account shortly after the course have started. This e-mail will contain a temporary logon ID and password at Cisco Network Academy. Once you have received this email, you must logon and activate your account. If you have not received an e-mail within the first week of the course, notify your teacher immediately.

Once you have activated your account you will be enrolled in the class Network Fundamentals. This class will be available to you through a link at your

Cisco network academy account. In this class you can access the course material under “Home - Launch Course”. The assessment tests for each chapter, can be found under “Assignments”.

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 very similar the real exam you will take (final exam). You should have passed all the assessment tests and practice final exam before taking 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 Network Fundamentals. The second exam will be given at the end of the course and covers Routing Protocol and Concepts. *You must pass the first exam before you can start with Routing Protocols and Concepts.*

You will be given four assignments in this course, two laboratory assignments for Network Fundamentals and one theory assignment followed by a practical laboratory assignment for Routing Protocol and Concepts.

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 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.

2.4.1 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.

¹see Table 1 for grades.

2.4.2 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 2.5.

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.

2.5 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 2.5.1 for allowed aids during exam
- See 2.5.2 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.

2.5.1 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.

2.5.2 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.

2.6 Grading

Table 1 shows the grading criteria that will be used throughout this course.

Table 1: Grading criterias.

Grade	Score
E	70%
D	75%
C	80%
B	85%
A	93%

The final grade for the course will be based on the mean value from your final exam scores for Network Fundamentals and Routing Protocol and Concepts.

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 Network Fundamentals and [3] for Routing Protocol and Concepts.

4 Timetable

See Table 2 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] Mark A. Dye, Rick McDonald, and Antoon W. Ruff. *Network Fundamentals*. Cisco press, 800 East 96th Street, Indianapolis, IN, 2012. ISBN 978-1-587-13348-0.

- [3] Rick Grazuani and Allan Johnson. *Routing Protocols and Concepts: CCNA Exploration Companion Guide*. Cisco press, 800 East 96th Street, Indianapolis, IN, 2012. ISBN 978-1-587-13272-8.

Table 2: Timetable based on course given at 50%.
Please adapt this time table according to pace of the course.

Course Week	Chapter
1-5	CCNA Part one - Network Fundamentals
1	Chapter 0 – Course Introduction Chapter 1 – Living in a Network-Centric World Chapter 2 – Communicating over the Network Chapter 3 – Application Layer Functionality and Protocols
2	Chapter 4 – OSI Transport Layer Chapter 5 – OSI Network Layer Chapter 6 – Addressing the Network - IPv4
3	Chapter 7 – Data Link Layer Chapter 8 – OSI Physical Layer Chapter 9 – Ethernet
4	Chapter 10 – Planning and Cabling Networks Chapter 11 – Configuring and Testing Your Networks Practice Final exam
5	Final exam and Lab for CCNA1
6-10	CCNA part two - Routing Protocols and Concepts
6	Chapter 0 - Course Introduction Chapter 1 - Introduction to Routing and Packet Forwarding Chapter 2 - Static Routing
7	Chapter 3 - Introduction to Dynamic Routing Protocols Chapter 4 - Distance Vector Routing Protocols Chapter 5 - RIP version 1
8	Chapter 6 - VLSM and CIDR Chapter 7 - RIPv2 Chapter 8 - The Routing Table: A Closer Look
9	Chapter 9 - EIGRP Chapter 10 - Link-State Routing Protocols Chapter 11 - OSPF
10	Practice Final exam Final exam and Lab for CCNA2