

# Course information for Network Technology

Lennart Franked

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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. *Note: You must activate your account before you can be enrolled in a class.* 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 “View Official Course Material”. You will also get assessment tests for each chapter, these can be found under “Assessments and Grades”.

## 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 test<sup>1</sup>, 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 also 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.

## 2.4 Taking the exam

You are not allowed to use any aids during the exams, except a blank piece of paper and a pen. Any attempts of cheating during an exam will directly be reported to the disciplinary committee, you will not get a warning. If you talk during the exam you will be asked to abort the exam and come back the next time the exam will be given.

## 2.5 Grading

The following grading criteria will be used throughout this course.

Table 1: Grading criterias.

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

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<sup>1</sup>see Table 1 for grades.

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 network academy, 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 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](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%.

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