



**CISCO CCNA1**

CCNA Routing and Switching: Introduction to Networks

# Introductie (CH 0)

Introductie en afspraken

**DE HOGESCHOOL  
MET HET NETWERK**

Hogeschool PXL – Elfde-Liniestraat 24 – B-3500 Hasselt

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# Inhoud: Introductie en afspraken

1. Info CISCO
2. Course set-up (netacademy)
3. Chapter 0: Course introduction
4. Voorkennis
5. Blackboard
6. CCNA Routing and Switching: Introduction to Networks

# 1. Info

- Niveau = Introduction level
- 28 contact uren
- Quoting:
  - 20% PE (Chapter-exams, PT-exam, Final, ...)
  - 80% Examen (schriftelijk gesloten boek tijdens de examenweek)
  - Herexamen: 100% schriftelijk gesloten boek
- Handboek(en) zijn optioneel
- Netacademy = Online cursus (engels!)

# 1. Info (PE detail)

20% Permanente evaluatie

- 5% = Chapter testen
  - @ HOME
  - **Schedule: zie blackboard**

CHAP 1-2-3-4-5-6	→ Voor aanvang paasvakantie
CHAP 7-8-9-10-11	→ Voor aanvang examenweken

- 7,5% = Final test
  - online, gesloten boek, tijdens laatste lesweek
  - **Verplichte aanwezigheid!**
- 7,5 % = PT test
  - online, gesloten boek, tijdens eerste week na paasverlof
  - **Verplichte aanwezigheid!**

# 1. Info: Course overview

## Cisco CCNA 5.1 Module 1 : Introduction to Networks

- Ch01: Exploring the Network
- Ch02: Configure a Network Operation System
- Ch03: Network Protocols and Communications
- Ch04: Network Access
- Ch05: Ethernet
- Ch06: Network Layer
- Ch07: IP addressing
- Ch08: Subnetting IP Networks
- Ch09: Transport Layer
- Ch10: Application Layer
- Ch11: Build a Small Network

# 1. Info: Course overview - Planning

PLANNING		
LESWEEK	DATUM	
1	5/2	Kennismaking cursus. Chapter 0+1
	12/2	Krokusvakantie
2	19/2	Packet Tracer + Chapter 2
3	26/2	OSI model, Chapter 3
4	5/3	OSI model + network access, CHP 3+4
5	12/3	Ethernet, CHP5
6	19/3	Network layer, CHP6
7	26/3	IP addressing, CHP 7
	2/4	Paasvakantie
	9/4	
8	16/4	PE PT-Chapter6 + Intro Subnetting VLSM CHP 8
9	23/4	LABO 'Network basics'
10	30/4	Subnetting VLSM CHP 8
11	7/5	Subnetting & IP addressing, oefeningen CHP 6+7+8
12	14/5	Transport Layer CHP 9
13	21/5	Application layer CHP 10
14	28/5	Final test Cisco netacademy
	4/6	Examens

## 2. Course setup

1. Redeem TOKEN (NO NICKNAME AND PXL-EMAIL!)
2. Wait for e-mail
3. Log in using new login + password
4. settings (country, ...)
5. new password
6. Change user profile

See other presentation!

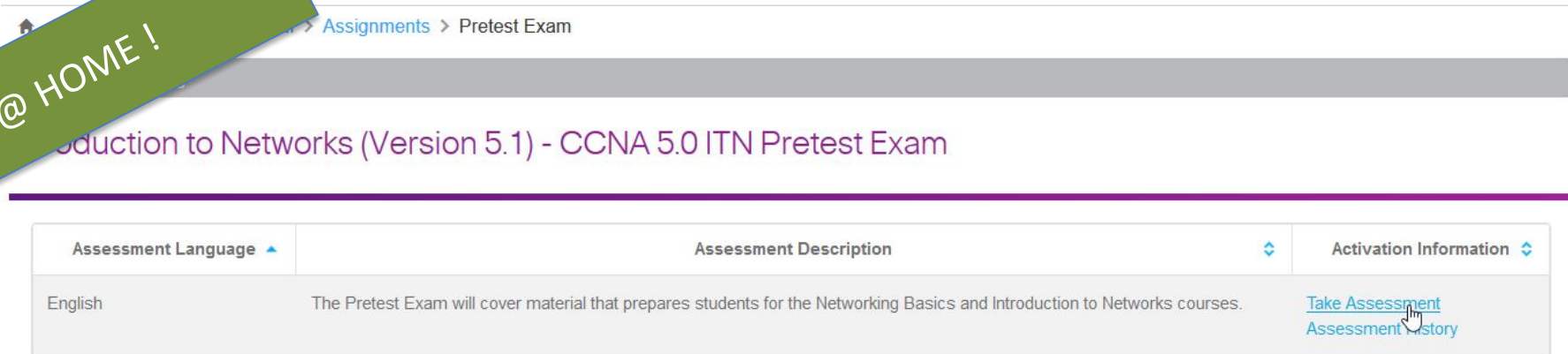
### What's next (@home)

1. download packettracer (student resources)
2. Complete the pre-test
3. Launch course and read chapter 0 (introduction)

## 2. Course set up: pretest

Go to assignments → pretest Exam → Take assessment

@ HOME !



Home > Assignments > Pretest Exam		
Introduction to Networks (Version 5.1) - CCNA 5.0 ITN Pretest Exam		
Assessment Language ▲	Assessment Description ◆	Activation Information ◆
English	The Pretest Exam will cover material that prepares students for the Networking Basics and Introduction to Networks courses.	<a href="#">Take Assessment</a> <a href="#">Assessment History</a>



# 3. Chapter 0: course introduction

Introduction to Networks

Chapter 0  
Course Introduction

0.0  
Welcome to Introduction to Networks

0.0.1  
Message to the Student

0.0.1.1  
Welcome

@ HOME !

Welcome

Welcome to the CCNA Introduction to Networks course. The goal of this course is to introduce you to fundamental networking concepts and technologies. These online course materials will assist you in developing the skills necessary to plan and implement small networks across a range of applications. The specific skills covered in each chapter are described at the start of each chapter.

You can use your smart phone, tablet, laptop, or desktop to access your course, participate in discussions with your instructor, view your grades, read or review text, and practice using interactive media. However, some media are complex and must be viewed on a PC, as well as Packet Tracer activities, quizzes, and exams.

Recent Pages Bookmarks Course Index Search Languages Select Background Help Return to Class

- Gives overview of the different aspects of the online course
- Learn how to switch between chapters, sections, take quizzes,...

## 4. Voorkennis

- Binair <-> Decimaal !!
- Geen verdere voorkennis vereist!

# 5. Blackboard



## Leerpap Cisco CCNA1

Via dit leerpap op blackboard wordt je stap voor stap doorheen het vak Cisco CCNA 1 gegidst.  
Per hoofdstuk vind je een korte uitleg, doelstellingen, links (blackboard), leertips en extra leermateriaal.

- Leerpap
- Samenvatting/slides per hoofdstuk
- Extra's
  - Pluralsight
  - Extra oefeningen
  - Video's (dataflow + subnetting)

### Opmerking:

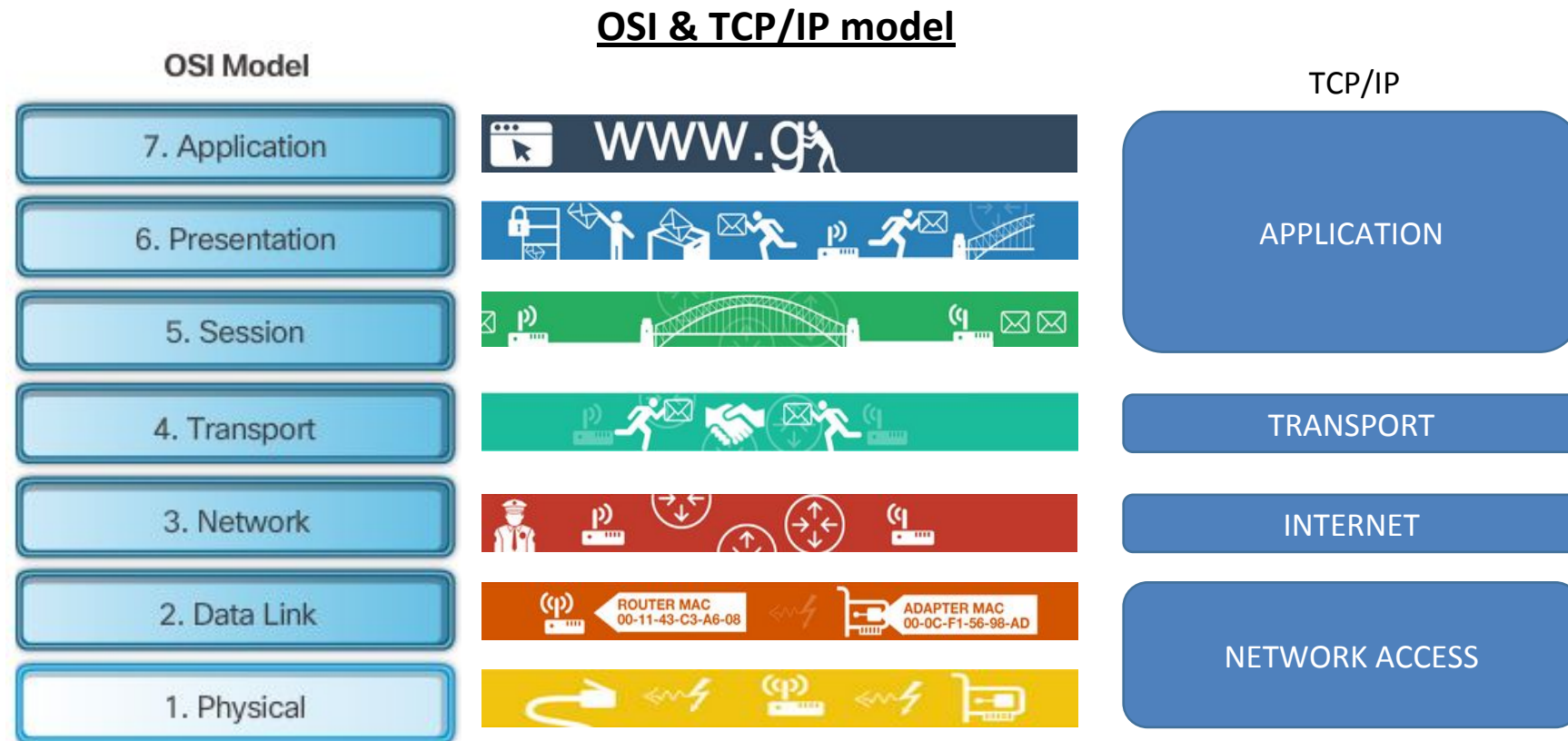
BLACKBOARD ≠ CISCO NETACADEMY

## 6. CCNA1 Routing and Switching: Introduction to Networks

1. OSI model en de belangrijkste (LAN) protocollen.
2. Data Flow in een LAN (verklaring volgens het OSI model).
3. IP en subnetting.
4. Het toepassen en onderzoeken van bovenstaande 3 in Packettrace oefeningen.

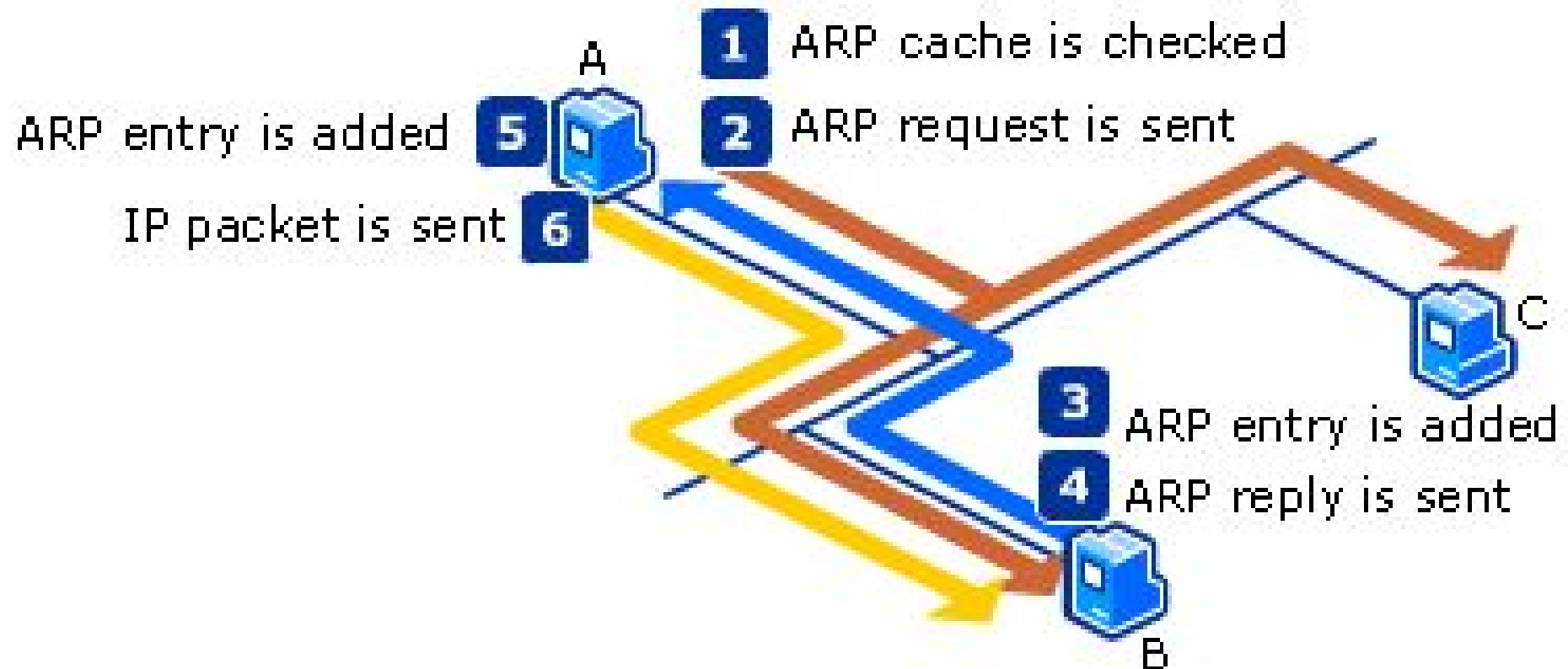
# 6. CCNA1 Routing and Switching: Introduction to Networks

## 1. OSI model en de belangrijkste (LAN) protocollen



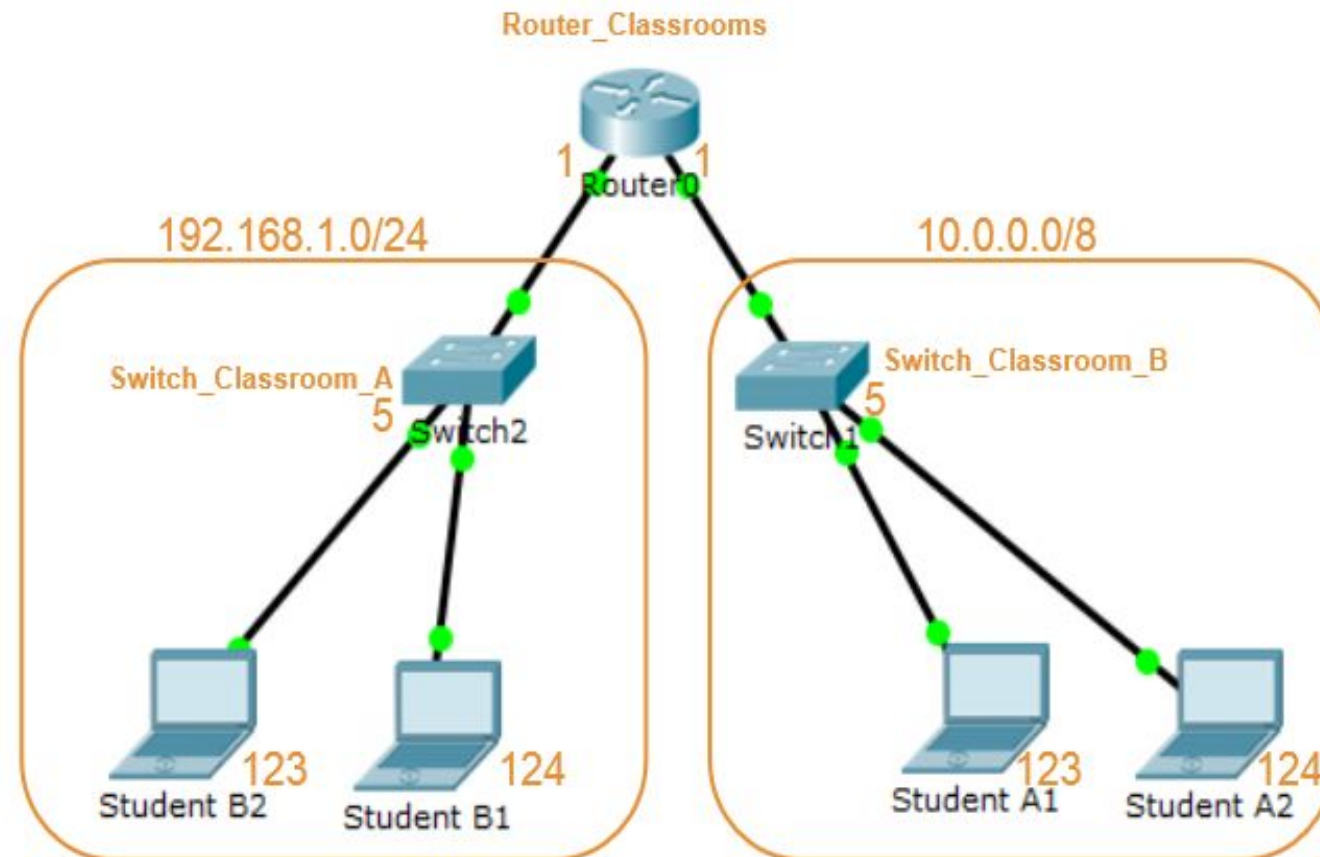
## 6. CCNA1 Routing and Switching: Introduction to Networks

### 2. Data Flow in een LAN (verklaring volgens het OSI model)



## 6. CCNA1 Routing and Switching: Introduction to Networks

### 3. IP en subnetting.





## 6. CCNA1 Routing and Switching: Introduction to Networks

4. Het toepassen en onderzoeken van vorige 3 puntjes in Packettrace oefeningen.

