



# ACCADEMIA DEL LEVANTE



Cisco Academy  
Cisco Academy Support Center  
Cisco Instructor Training Center

Intesa tra  
Cisco Academy  
“Accademia del Levante”  
&  
Politecnico di Bari  
CUC Ing. Informazione



**Ing. Maurizio MAGGIORA, CCAI**



# Agenda

- Il Consorzio Accademia del Levante
- Cisco Networking Academy Program
- CCNA Discovery
- Le certificazioni industriali CISCO
- Voucher di certificazione
- Il vostro percorso
- Procedura di iscrizione

# Il Consorzio Accademia del Levante



## Accademia del Levante



Via S. Matarrese, 41 – Bari

Consorzio no-profit per la  
formazione e l'educazione

Nato a Bari nel 2006

Via delle Dalie, 5  
Consorzio ASI – Modugno (BA)



## Accademia del Levante

**Accademia del Levante** si propone di potenziare la competitività del sistema Puglia e Paese, attraverso la creazione di profili professionali competenti nell'Information and Communication Technology (ICT) e certificati a livello internazionale.

## Accademia del Levante

Nell'ambito delle discipline tecnologiche, il **saper fare** è fondamentale.

Questo è l'ideale formativo cui si ispirano le attività di **Accademia del Levante**, nata con l'intento di promuovere e gestire iniziative educative e professionalizzanti.

## Accademia del Levante

Nella profonda convinzione che ciò che più conta sia la "centralità della persona", viene posta particolare enfasi sull'acquisizione delle "qualità personali" e sul "ruolo dell'etica".

Obiettivo perseguito attraverso l'attivazione di corsi professionali per i giovani e d'aggiornamento, qualificazione e riqualificazione per i lavoratori.



Cisco Networking Academy

# Cisco Networking Academy Program



# Cisco Networking Academy Program

- Modello internazionale evoluto di corporate phylantrophy
- Programma nato nel 1997 negli USA
- È presente in Italia con oltre 300 “Academy” sviluppate all’interno di istituti tecnici, università, centri di formazione e altre realtà no-profit che operano nella formazione.
- Il programma contribuisce all’innalzamento del livello di formazione scolastico ed alla riduzione della carenza di competenze nel settore, formando profili professionali nell’ambito dell’informatica e del networking.
- Una opportunità che si traduce in occupazione.

# Il modello Cisco Academy



## Cosa offre Cisco:

- L'offerta di Curriculum formativi e aggiornamenti
- La formazione degli istruttori
- Supporto per lo sviluppo delle Academy
- La Community virtuale

## Cosa offre l'Academy:

- La struttura (aule e laboratori)
- Gli istruttori
- L'integrazione del Curriculum Cisco con i Corsi Universitari
- Le attrezzature

## II CNAP: Cisco Networking Academy Program

- Partnership tra **Cisco Systems** e Enti di Formazione no-profit (Istituti scolastici, Università, Centri di formazione professionale, Amministrazioni Pubbliche)
- **Finalità:** formazione professionale altamente qualificata in ambito Networking e ICT
- **Punti di forza:**
  - ✓ Certificati internazionalmente riconosciuti
  - ✓ Piattaforma / portale e-learning



Cisco Networking Academy

# Il CNAP – Portale di e-learning

<http://cisco.netacad.net>

Log In Account Register My Cisco

Products & Services Support How to Buy Training & Events Partners

HOME

TRAINING & EVENTS

TRAINING RESOURCES

- Training From Cisco Learning Partners
- Learning Credits
- Using the Technical Support and Documentation Website
- Partner Education Connection
- Academy of Digital Signage
- Advanced Services Education
- Cisco Networking Academy**
  - About Networking Academy
  - Announcements and News
  - Career Information
  - Courses & Certifications

## Cisco Networking Academy

### Mind Wide Open

See how Networking Academy is helping students succeed in communities around the world. (2:18 min)

**Log In**

**Become a Student**

**Become an Instructor**

**Become an Academy**

**Academy Connection**

Resources for registered instructors, students, alumni, and administrators.

**Regional Sites** select

-- Select A Region --

**Academy Locator**

# II CNAP – Curriculum online

3 Connecting to the Network

3.1 Introduction to Networking

**3.1.1 What is a Network?** 1 2

What do you think of when you hear the term network?  
There are many types of networks in existence that you may interact with daily.

Networks provide the ability to connect people and equipment, no matter where they are in the world.

For example, in this airport scene there are multiple types of networks used. How many can you find?

**Click on items in the scene to locate the different types of networks.**

Networking for Home and Small Businesses v1.0

Espanol

3.1.1.1

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# II CNAP – Packet Tracer

The screenshot displays the Cisco Packet Tracer software interface. The main workspace shows a network diagram with a router (R1-ISP) and a server (Eagle Server) connected via their Fa0/0/0 ports. A task window titled "PT Activity: 00:01:53" is open, providing instructions for connecting the server to the router and testing connectivity. The task includes a "Reflection" section and a "Task 2: Explore How DNS and HTTP Work Together" section. The interface also shows a "Realtime" mode window with a "Scenario 0" dropdown and a "PDU List Window" showing a packet with ID 1841.

**PT Activity: 00:01:53**

Connect the Eagle Server to the Fa0/0/0 port on the R1-ISP router. Turn on web services on the server by enabling HTTP. Enable DNS services and add a DNS entry that associates "eagle-server.example.com" (without quotes) with the IP address of the server. Verify your work using feedback from the **Check Results** button and the **Assessment Items** tab. Test connectivity, in realtime, by using ADD SIMPLE PDU to test connectivity between PC 1B and the Eagle Server.

Note that when you add a simple PDU, it appears in the PDU List Window as part of "Scenario 0". The first time you issue this one-shot ping message, it will show as **Failed**--this is because of the ARP process which, will be explained later. Double clicking the "Fire" button in the PDU List Window, send this single test ping a second time. This time it will be successful. In Packet Tracer, the term "scenario" means a specific configuration of one or more test packets. You can create different test packet scenarios by using the **New** button--for example Scenario 0 might have one test packet from PC 1B to Eagle Server, Scenario 1 might test packets between PC 1A and the routers... You can remove all test packets in a particular scenario by using the **Delete** button. For example, if you use the **Delete** button for Scenario 0 the test packet you just created between PC 1B and Eagle Server will be removed--please do this prior to the next task.

**Task 2: Explore How DNS and HTTP Work Together**

Switch from Realtime to Simulation mode. Open a web browser from the desktop of PC 1B. Type in eagle-server.example.com, press Enter, and then use the **Capture / Forward** button in the **Event List** to capture the interaction of DNS and HTTP. Play this animation and examine the Packet contents (**PDU Information Window**, **Inbound PDU Details**, **Outbound PDU Details**) for each event in the event list, especially when the packets are at PC 1B or at the Eagle Server. If you receive a "Buffer Full" message, click the **View Previous Events** button. While the processing of the packets by the switch and the routers may not make sense to you yet, you should be able to see how DNS and HTTP work together.

**Reflection:**  
Time Elapsed: 00:01:53  
Completion: 0%  
 Top  Check Results

**Realtime**

Scenario 0	Fire	Last Status	Source	Destination
1841				

# II CNAP – Laboratori guidati

**Lab 3.4.2: Managing a Web Server**

Topology Diagram

Addressing Table

Device	Interface	IP Address	Subnet Mask	Default Gateway
R1-ISP	S0/0/0	10.10.10.6	255.255.255.252	N/A
	Fa0/0	192.168.254.253	255.255.255.0	N/A
R2-Central	S0/0/0	10.10.10.5	255.255.255.252	10.10.10.6
	Fa0/0	172.16.255.254	255.255.0.0	N/A
Eagle Server	N/A	192.168.254.254	255.255.255.0	192.168.254.253
St-Central	N/A	172.31.24.254	255.255.255.0	N/A
hostPod#A	N/A	172.16. Pod# 1	255.255.0.0	172.16.255.254
hostPod#B	N/A	172.16. Pod# 2	255.255.0.0	172.16.255.254
St-Central	N/A	172.16.254.1	255.255.0.0	172.16.255.254

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http://curriculum.netacad.net/virtuoso/servlet/org.cbi.delivery.rendering.servlet.CCServlet/Ses - Microsoft Inte...

91%

Download New Reader Now

Basic

CCNA Discovery  
Networking for Home and Small Businesses

Cisco Networking Academy®  
Mind Wide Open™

### Lab 6.2.3 Exploring FTP

**Objective**

- Demonstrate how to use FTP from the command prompt and GUI.

**Background / Preparation**

File Transfer Protocol (FTP) is part of the TCP/IP suite. FTP is used to transfer files from one network device to another network device. Windows includes an FTP application that you can execute from the command prompt. There are also many free GUI versions of FTP that you can download. The GUI versions are easier to use than typing from a command prompt.

When using FTP, one computer is normally the server and the other computer is the client. When accessing the server from the client, you need to provide a username and password. Some FTP servers have a userID named *anonymous*. You can access these types of sites by simply typing "anonymous" for the userID, without a password. Usually, the site administrator has files that can be copied but does not allow files to be posted with the anonymous userID.

If your class does not have an FTP server available, you can download and install a freeware version, such as Home FTP Server or Cerberus FTP server. The FTP Server on a computer running the CCNA Discovery Live CD may also be used. Another computer will act as the FTP client by using FTP from the command line, a web browser, or download a freeware version of an FTP client, such as SmartFTP Client or Core FTP LE client. Work in teams of two to complete this lab.

The following resources are required:

- Windows-based computer with an FTP client
- FTP server (Existing FTP server, downloaded freeware, or use Live CD)

**Step 1: Examine FTP from the command prompt**

Click the Start button, select Run... type cmd on the command line, and then click OK.

8.5 x 11 in | 1 of 2

Done | Internet



# Certificati di superamento corso



## Certificate of Course Completion

### CCNA Discovery: Networking for Home and Small Businesses

During the Cisco® Networking Academy course, administered by the undersigned instructor, the student was able to proficiently:

- Set up a personal computer system, including the operating system, interface cards and peripheral devices
- Plan and install a small business network and connect it to the Internet
- Verify and troubleshoot network and Internet connectivity
- Share resources such as files and printers among multiple computers
- Recognize and mitigate security threats to a home network
- Configure and certify common Internet applications
- Configure basic IP services through a GUI

_____ Student	
Studenti Politecnico Bari	
_____ Academy Name	
_____ Bari	_____ February 2, 2010
_____ Location	_____ Date
_____ Maggiora, Maurizio	_____ Instructor Signature
_____ Instructor	

# CCNA Discovery



# CCNA Discovery Course Sequence

**CCNA Discovery**

**Networking for Home and  
Small Businesses**

**Working at a Small-to-  
Medium Business or ISP**

**Introducing Routing and  
Switching in the  
Enterprise**

**Designing and Supporting  
Computer Networks**

# CCNA Discovery Course Outline

Ch	Networking for Home and Small Businesses	Working at a Small-to-Medium Business or ISP	Introducing Routing and Switching in the Enterprise	Designing and Supporting Computer Networks
1	Personal Computer Hardware	The Internet and Its Uses	Networking in the Enterprise	Introducing Network Design Concepts
2	Operating Systems	Help Desk	Exploring the Enterprise Network Infrastructure	Gathering Network Requirements
3	Connecting to the Network	Planning a Network Upgrade	Switching in an Enterprise Network	Characterizing the Existing Network
4	Connecting to the Internet Through an ISP	Planning the Addressing Structure	Addressing in an Enterprise Network	Identifying Application Impacts on Network Design
5	Network Addressing	Configuring Network Devices	Routing with a Distance Vector Protocol	Creating the Network Design
6	Network Services	Routing	Routing with a Link-State Protocol	Using IP Addressing in the Network Design
7	Wireless Technologies	ISP Services	Implementing Enterprise WAN Links	Prototyping the Campus Network
8	Basic Security	ISP Responsibility	Filtering Traffic Using Access Control Lists	Prototyping the WAN
9	Troubleshooting Your Network	Course Summary: Putting it all together	Troubleshooting an Enterprise Network	Preparing the Proposal
10	Course Summary: Putting it all together		Course Summary: Putting it all together	Course Summary: Putting it all together



Cisco Networking Academy

# Le Certificazioni Industriali CISCO



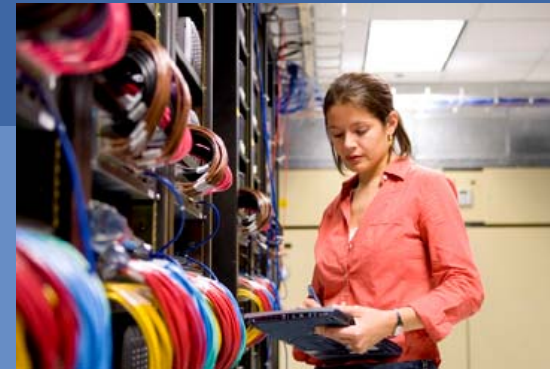
# Cisco Career Certification

## CCENT An Accessible Entry Point



- Cisco CCENT Entry-Level Network Technician certifies skills for entry level network support
- An intermediate step towards CCNA for those with little or no work experience

## CCNA A Foundation in Networking



- Greater breadth reflects today's enterprise networks
- Focus on performance-based skills and hands-on practice
- Localization addresses worldwide skills gap

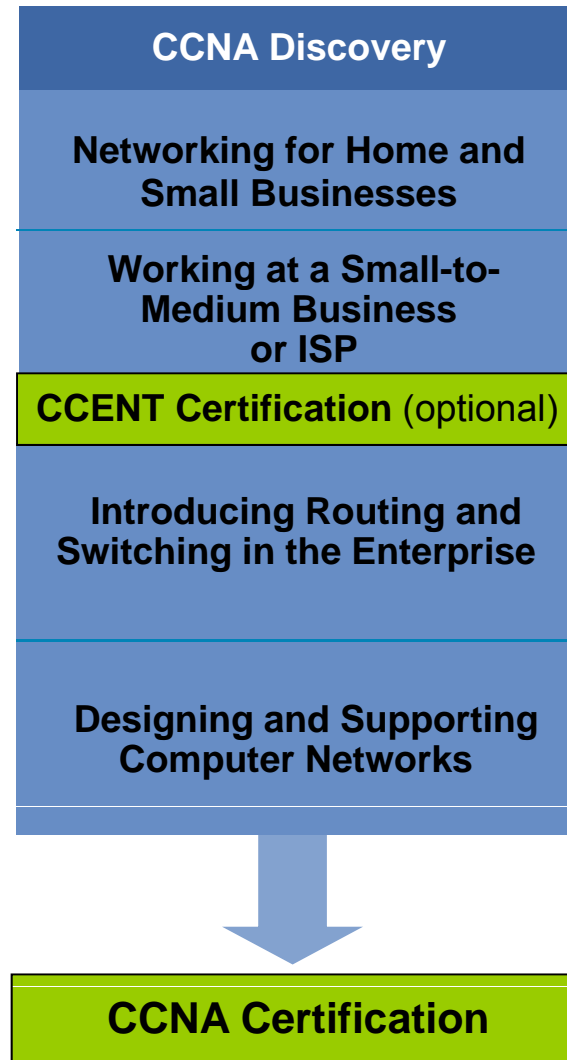
# Certification Levels



<p><b>Expert:</b> CCIE<sup>®</sup>, CCDE<sup>®</sup></p>		<ul style="list-style-type: none"> <li>▪ Security</li> <li>▪ IP Communications</li> <li>▪ Wireless</li> <li>▪ Storage Networking</li> <li>▪ Optical</li> <li>▪ Advanced Routing and Switching</li> <li>▪ Foundation</li> </ul>
<p><b>Professional:</b> CCNP<sup>®</sup>, CCIP<sup>®</sup>, CCSP<sup>®</sup>, CCVP<sup>™</sup>, CCDP<sup>®</sup></p>		
<p><b>Associate:</b> CCNA<sup>®</sup>, CCDA<sup>®</sup></p>		

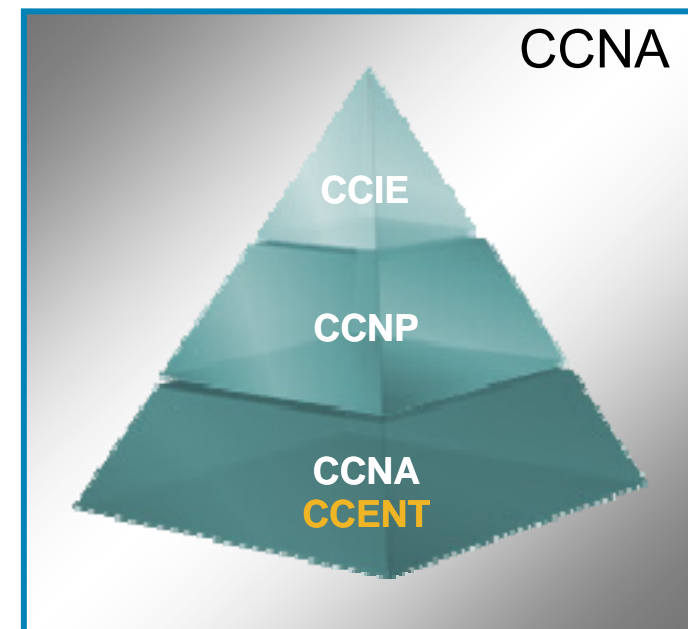
Cisco Certified Entry Network Technician (CCENT<sup>™</sup>)

# Path to CCNA Certification



# Cisco CCENT Certification

- Certifies skills required to configure, operate and troubleshoot a small enterprise branch network, under supervision
- Aligned to entry level positions in network support, such as help desk representative or technical support assistant
- Requires first of two CCNA exams (ICND 1 640-822)
- An optional, intermediate step towards certification
- Recipients gain access to Cisco Certification Community and use of CCENT logo



# Cisco CCNA Certification

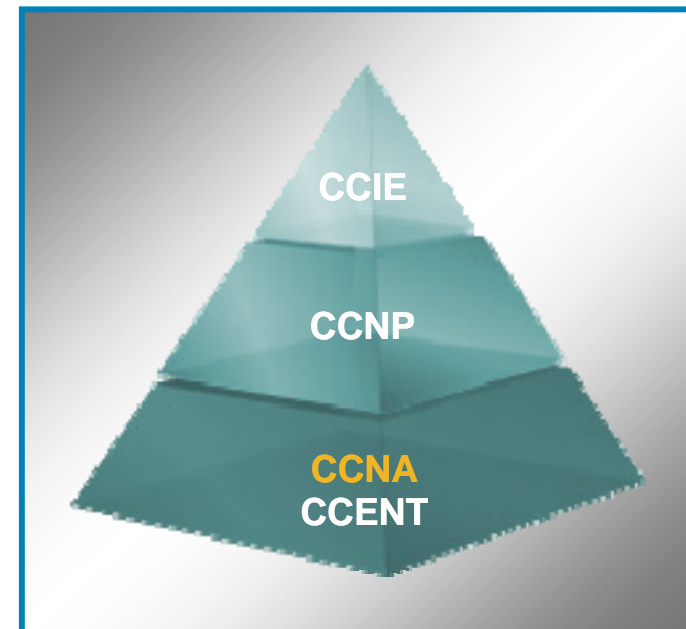
- Certifies knowledge and skills to install, operate and troubleshoot a small to medium size enterprise branch network
- Includes connecting to multiple WANs, basic security measures and wireless extension of the network.
- Two options for the exams (2 exam option or one composite exam)

## 2 Exam option:

- ICND1 640-822 exam
- ICND2 640-816 exam

## 1 Composite Exam option:

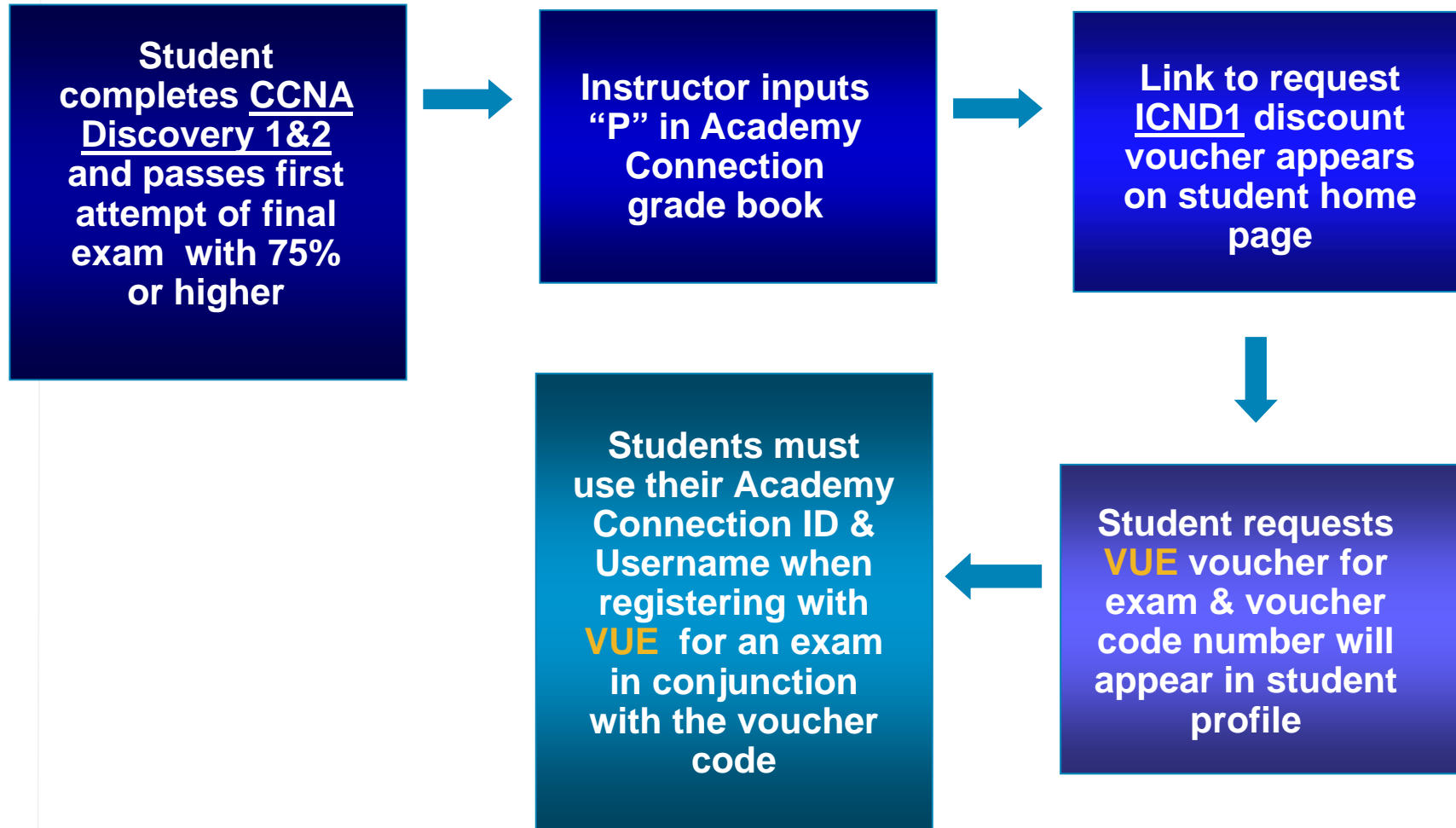
- CCNA 640-802 exam



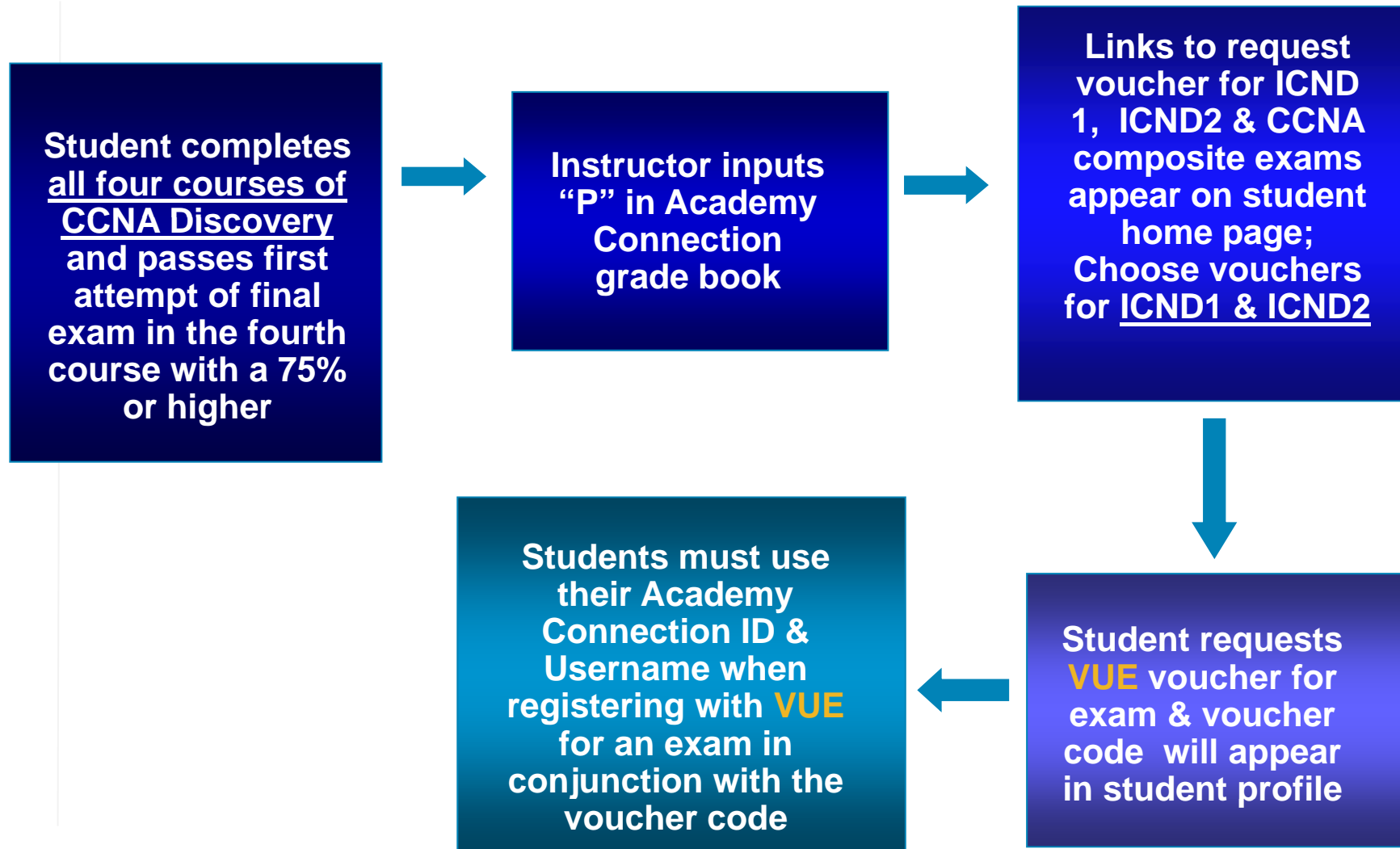
# Voucher di Certificazione



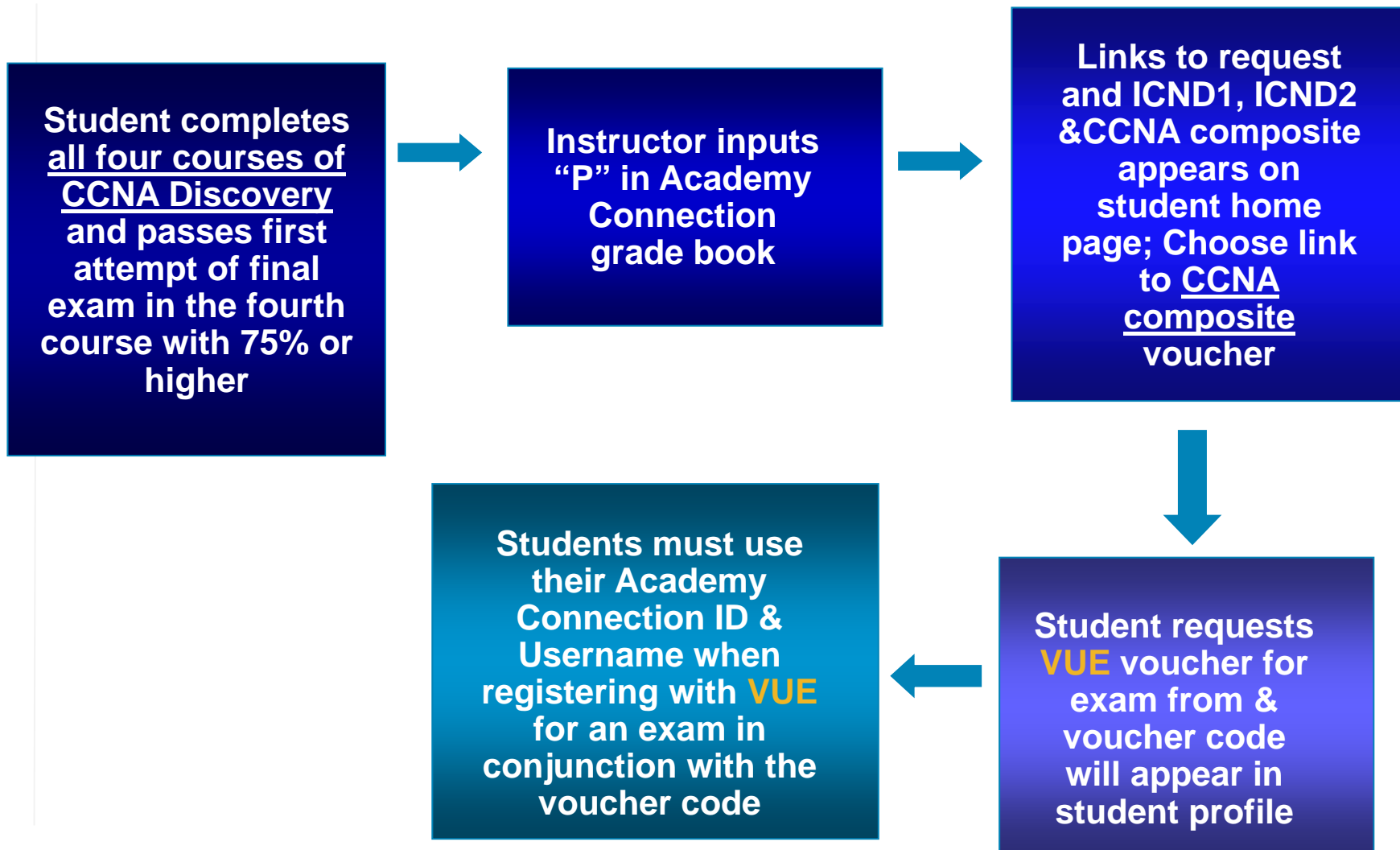
# CCENT Certification Discount Voucher



# CCNA Certification Discount Voucher



# CCNA Certification Discount



# Il vostro percorso



**Corso universitario di  
Reti di telecomunicazioni**

**Attestazione di frequenza  
del corso  
da parte del docente**

+

**Superamento di almeno 5  
esami di autovalutazione  
intermedi sulla piattaforma**

**Esame CCNA\_1  
Gratuito**

**Esame CCNA\_2  
(costo 70 euro + IVA)**



**Certificazione  
industriale CCENT  
(presso Test Center  
autorizzati)**

**Corso universitario di  
Laboratorio di  
Reti di telecomunicazioni**

**Esame di  
Laboratorio di  
Reti di telecomunicazioni**

+

**Formazione integrativa**

+

**Laboratorio c/o Academy**

**Esame CCNA\_3  
Gratuito**

**Esame CCNA\_4  
(costo 70 euro + IVA)**



**Certificazione  
industriale CCNA  
(presso Test Center  
autorizzati)**

## Importante!!!

- ✓ Per ciascun modulo, gli esami (durata max 3 h) in Accademia consistono in:
  - ✓ un esame teorico (Final Exam: 50 domande)
  - ✓ un esame pratico (Skill Exam: simulazione con Packet Tracer)
- ✓ Gli esami in Accademia possono essere sostenuti PRIMA del relativo esame universitario, ma saranno convalidati solo dopo che lo studente ha sostenuto il corrispondente esame universitario
- ✓ Si consiglia FORTEMENTE di sostenere tutti gli esami intermedi di autovalutazione disponibili sul Portale
- ✓ L'iscrizione al Portale ha validità finchè lo studente è iscritto al Politecnico
- ✓ Gli esami indicati come "gratuiti" solo tali SOLO al primo tentativo. Eventuali ripetizioni sono a carico dello studente (70 euro + IVA)

# Procedura di iscrizione



## Come procedere...

- inviare via e-mail ([poliba@accademiadellevante.org](mailto:poliba@accademiadellevante.org)) o fax (0802140974) il modulo pdf editabile disponibile sul sito

<http://www.accademiadellevante.org/politecnico-di-bari.html>

- si riceverà una e-mail di conferma di iscrizione al portale Cisco Academy [cisco.netacad.net](http://cisco.netacad.net) con username e password provvisoria per il primo accesso



Cisco Networking Academy

# Grazie per l'attenzione

## Cisco Academy "Accademia del Levante"

[www.accademiadellevante.org](http://www.accademiadellevante.org)

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