Aptech Certified Network Specialist (ACNS) Curriculum Code - **6628**
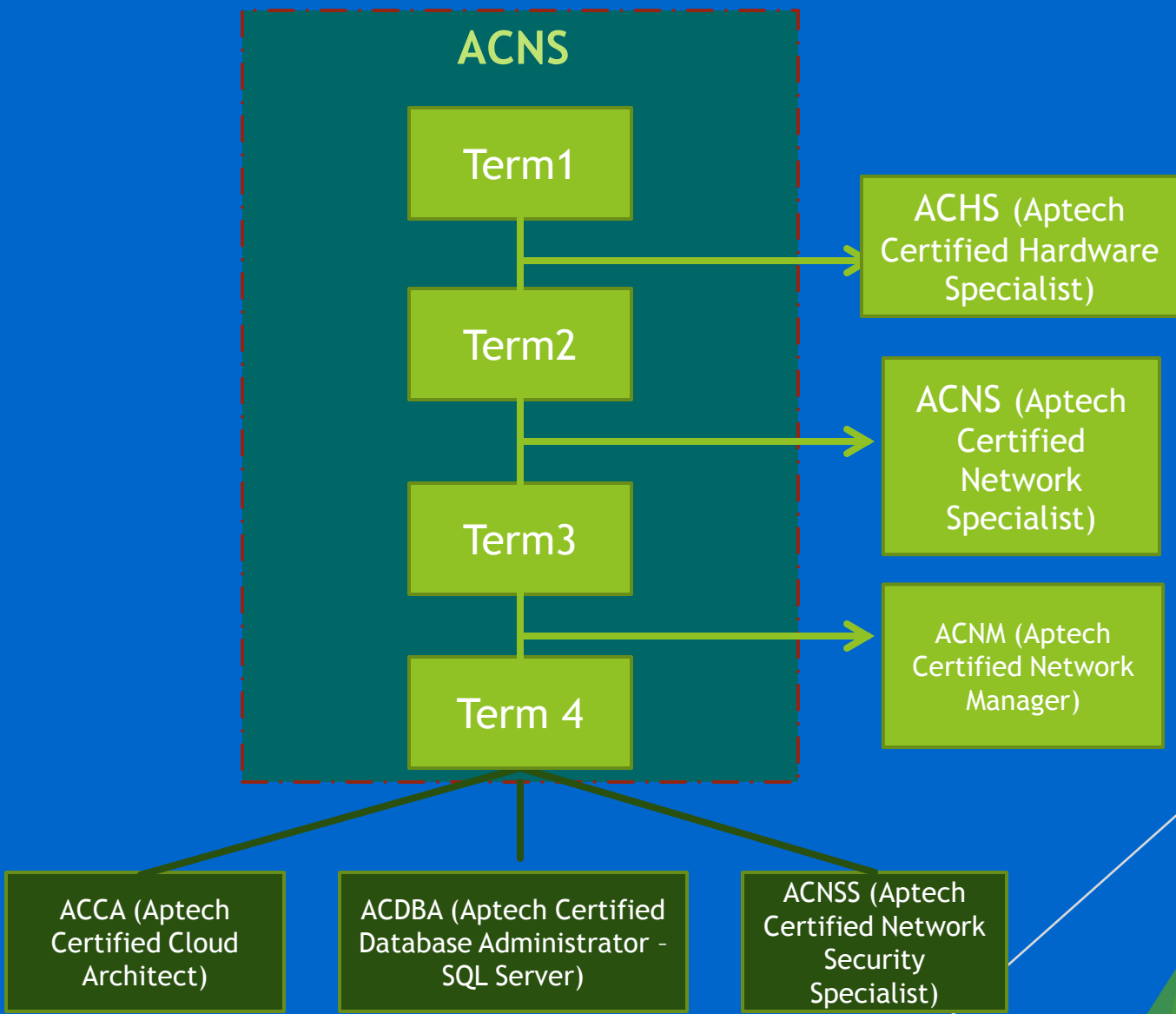
2014

Why Hardware and Networking

Companies worldwide, depend heavily on Networking Infrastructure and Computer Hardware. Industries relies on technology need Hardware & Networking Engineers of every skill today & demand for jobs focusing to install, maintain & service computers and IT Networks are on the rise across Banking, Finance, Education, Retail, Airline, Manufacturing, Communication and other industries. In Vietnam there are high need for these professionals. Keeping this in mind we have designed Aptech Certified Network Specialist Course with 3 Specializations.

COURSE

1

ACNS - Vietnam

ACNS - Framework

ACNS

- Term1 → **ACHS** (Aptech Certified Hardware Specialist)
- Term2 → **ACNS** (Aptech Certified Network Specialist)
- Term3 → **ACNM** (Aptech Certified Network Manager)
- Term 4
  - **ACCA** (Aptech Certified Cloud Architect)
  - **ACDBA** (Aptech Certified Database Administrator – SQL Server)
  - **ACNSS** (Aptech Certified Network Security Specialist)

Salient Features

- Industry relevant curriculum

- Latest technology platforms from **Microsoft, Cisco,** and **CompTIA**

- Opportunities for Vendor Certifications

- Intensive Practice and Assessment Laboratory workshops

- Designed for better Employability

- E-Project Guidance and Evaluation by Technology Experts

- Opportunities to become Server Administrator

ACNS – Course Rationale
Term 1

Learn the fundamentals, concepts, theory and applications of digital electronics.

1

Learn the fundamentals of computer technology, installation and configuration of PCs, laptops and related hardware, and basic networking.

2

Install and configure PC operating systems, as well as configure common features for mobile operating systems - Android and Apple iOS.

3

Term 1 Modules

1 — Digital Electronics
(Duration: 40)

2 — Fundamentals of Computer Hardware and Networking
(Duration : 40)

3 — PC Configuration and Troubleshooting
(Duration : 40)

Total Duration - 120

Hardware Specialist

ACNS – Course Rationale
Term 2

Gain knowledge in network technologies, installation and configuration, media and topologies, management, and security.

1

Identify security threats to a network and describe general methods to mitigate those threats

2

Configure, verify, and troubleshoot basic router operation and routing on Cisco devices

3

Configure and administer Windows 8 as a standalone installation or in a corporate environment as a part of a Windows Active Directory domain

4

Configure hardware & software, configure networking and backup & restore system information.

5

Term 2 Modules

1 Networking Essentials
(Duration : 40)

2 Routing Technology
(Duration : 80)

3 Working with Windows Operating System
(Duration : 40)

Total Duration - 160

Network Specialist

ACNS – Course Rationale
Term 3

Implement a core Windows Server 2012 Infrastructure into an existing enterprise environment	**1**
Implement and configure Windows Server 2012 core services - Active Directory and the networking services	**2**
Administer tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security	**3**
Learn the advanced configuring tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure	**4**

Term 3 Modules

1 — Configuring a Network Infrastructure
(Duration : 40)

2 — Windows Server Administration
(Duration : 40)

3 — Advanced Windows Server Services Configuration
(Duration : 40)

4 — eProject
(Duration : 24)

Total Duration - 144

Network Management

Specializations

1 ACNS – Cloud

2 ACNS – SQL Server DBA

3 ACNS - Security

ACNS - Cloud
Course Rationale

Aptech

Design, implement and maintain a Windows Server 2012 Infrastructure in an enterprise scaled, highly virtualized environment

1

Plan, configure, and implement the Windows Server 2012 services, such as server deployment, server virtualization, and network access and infrastructure

2

Plan, configure, and manage the Windows Server 2012 services, such as identity and access, high availability and the server infrastructure

3

Install and configure a private cloud solution

4

Use System Center 2012 to monitor and operate a private cloud

5

Modules

1 — **Designing and Implementing a Windows-based Server Infrastructure** (Duration : 40)

Implementing a Windows-based Advanced Server Infrastructure (Duration: 40) — **2**

3 — **Private Cloud Configuration** (Duration : 40)

Monitoring a Private Cloud System (Duration : 40) — **4**

5 — **eProject** (Duration : 24)

Total Duration - 184

Cloud Architect

ACNS – Cloud
Duration Summary

Term 1 - 120

⬇

Term 2 - 160

⬇

Term 3 – 144

⬇

Term 4 - 184

⬇

Grand Total - 608

ACNS – Leading to Cloud Certifications

CompTIA A+

CompTIA Network+

CCNA (Routing & Switching)

MCSE: Windows Server 2012

MCSE: Private Cloud

ACNS – Cloud Summary

Term	Exam Count	Certification Count
1	2	1
2	3	2
3	3	1
4	4	2
Total	12	6

ACNS – DBA
Course Rationale

Write queries and work with database entities using Transact-SQL in Microsoft SQL Server 2012

1

Administer and manage SQL Server 2012 - planning, installing, troubleshooting, recovering and securing instances and databases

2

Design and implement a data warehouse with SQL Server 2012

3

Modules

1   **Database Management using SQL Server**
(Duration : 40)

2   **Database Administration using SQL Server**
(Duration : 40)

3   **Data Warehouse Implementation using SQL Server**
(Duration : 40)

4   **eProject**
(Duration : 24)

Total Duration - 144

SQL Server DBA

ACNS – DBA
Duration Summary

Term 1 - 120

Term 2 - 160

Term 3 – 144

Term 4 - 144

Grand Total - 568

ACNS – Leading to DBA Certifications

CompTIA A+

CompTIA Network+

CCNA (Routing & Switching)

MCSA: Windows Server 2012

MCSA: SQL Server 2012

ACNS – DBA Summary

Term	Exam Count	Certification Count
1	2	1
2	3	2
3	3	1
4	3	1
Total	11	5

ACNS - Security
Course Rationale

Gain knowledge in communication security, infrastructure security, cryptography, operational security, and general security concepts

1

Plan, design, and deploy Forefront United Access Gateway

2

Mitigate security threats

3

Identify, counter and stop or defend hackers from penetrating the corporate network

4

Implement network intrusion prevention, proxy, caching, and filtering

5

Modules

1 **Network Security**
(Duration : 40)

Remote Access Solutions
(Duration : 48) **2**

3 **Implementing Cisco IOS Network Security**
(Duration : 40)

Ethical Hacking
(Duration : 40) **4**

5 **eProject**
(Duration : 24)

Total Duration - 192

Network Security Specialist

ACNS -Security
Duration Summary

Term 1 - 120

Term 2 - 160

Term 3 – 144

Term 4 - 192

Grand Total - 616

ACNS – Leading to Security Certifications

CompTIA A+

CompTIA Network+

CCNA (Routing & Switching)

MCSA: Windows Server 2012

CompTIA Security+

Certified Ethical Hacking

CCNA Security