


	Network & Systems Admin Training – NSAT			52 Weeks	888 Hours	PART V: Addendum D – Grading Policy
NSAT 0500	CompTIA ITF+	32 hours (4 weeks)	Instructor Led eBook V Labs	NTI Certificate of Course Completion ITF+ Certification from CompTIA		
<p>CompTIA IT Fundamentals certification is the essential qualification for beginning a career in IT Support.</p> <p>The CompTIA ITF+ exam will certify the successful candidate has the knowledge and skills required to identify and explain the basics of computing, IT infrastructure, software development and database use. In addition, candidates will demonstrate their knowledge to install software, establish basic network connectivity and identify/prevent basic security risks. Further, this exam will assess the candidate’s knowledge in the areas of troubleshooting theory and preventive maintenance of devices. This exam is intended for candidates who are advanced end users, are considering a career in IT, and are interested in pursuing professional-level certifications, such as A+.</p> <p>On course completion, you will be able to:</p> <ul style="list-style-type: none"> ▪ Set up a computer workstation and use basic software applications. ▪ Explain the functions and types of devices used within a computer system. ▪ Apply basic computer maintenance and support principles. ▪ Describe some principles of software and database development. ▪ Configure computers and mobile devices to connect to home networks and to the internet. ▪ Identify security issues affecting the use of computers and networks. 						
<p>This certification is designed as the starting point for a career in IT support. Obtaining ITF+ certification will show that you have the aptitude to pursue a</p>				CompTIA ITF+ FC0-U61		
				<p>The CompTIA IT Fundamentals+ certification exam FC0-U61 consists of 70 questions that take approximately one hour to complete. A passing score is 70% or higher.</p>		
				CompTIA ITF+ Domains	Weighting	

	professional-level certification, such as CompTIA A+.			1.0 IT Concepts and Terminology 17% 2.0 Infrastructure 22% 3.0 Application and Software 18% 4.0 Software Development 12% 5.0 Database Fundamentals 11% 6.0 Security 20%
	Network & Systems Admin Training – NSAT			56 Weeks 888 Hours PART V: Addendum D – Grading Policy
NSAT 1000	IT Essentials 7.0	256 hours (16 weeks)	Instructor Led NetAcad LMS	Cisco Certificate of Course Completion Letter of Congratulations from CEO of Cisco (=> 75% Final Exam)
<p> IT Essentials 7.0 is designed for those seeking to prepare themselves for an Entry-level position in Information & Communication Technology (ICT). It aligns with CompTIA’s A+ Hardware and Operating Systems Certification Exam Objectives. (See Below) This course, along with the other five (4) modules comprising NTL’s Network & Systems Administration Training – NSAT program, gives the student both the breadth and depth of knowledge employers are looking for in Entry-level ICT job candidates. This course provides students with the following:</p> <ul style="list-style-type: none"> ▪ An introduction to advanced concepts ▪ Practical experience through Hands-on lab ▪ Troubleshooting skills using both real and virtual tools ▪ A working knowledge of how computers and mobile devices operate ▪ A basic ability to identify common security threats and vulnerabilities like malware, phishing, spoofing and social engineering ▪ Applied skills and procedures to install, configure, and troubleshoot computers, mobile devices, and software ▪ Critical thinking and problem-solving skills using both real endpoint and infrastructure devices ▪ Experience using Cisco Packet Tracer, Cisco’s flagship network configuration emulation tool ▪ Immediate feedback on your work through built-in quizzes and test 				
As the Industry Standard for establishing a career in ICT, the CompTIA A+ Certification is the foundation of your career.			CompTIA A+ 220-1101 Hardware	This Certification Exam covers PC Hardware, Peripherals, Mobile Devices, Networking, Troubleshooting Hardware and Network Connectivity issues. (Maximum of 90 Questions / 90 Minutes / 675 on scale of 100 – 900 to pass)



According to the “Global Knowledge 2017 IT Skills and Salaries Report”, the importance of a Certification among decision-makers rose from 35% in 2011, to 85% in 2016, to 94% in 2017!

CompTIA A+ 220-1102 Operating Systems

This Certification Exam covers installing and configuring operating systems including Windows, iOS, Android, Apple OS X and Linux. It also addresses Security, the Fundamentals of Cloud Computing & Operational Procedures. (Maximum of 90 Questions / 90 Minutes / 700 on scale of 100 – 900 to pass)

Network & Systems Admin Training – NSAT				56 Weeks	888 Hours	PART V: Addendum D – Grading Policy
NSAT 1110	CCNA 1 – Introduction to Networks (ITN)	160 hours (10 weeks)	Instructor Led NetAcad LMS	<p>CCNA 1 – Introduction to Networks introduces the architecture, structure, functions, components, and models of the Internet and computer networks. Students learn about the principles of IP addressing and fundamentals of Ethernet concepts, media, and operations. By the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.</p>		Cisco Certificate of Course Completion
NSAT 1120	CCNA 2 – Switching, Routing & Wireless Essentials (SRWE)	84 Hours (6 weeks)	Instructor Led NetAcad LMS	<p>CCNA 2 – Switching, Routing & Wireless Essentials covers the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts. Students learn how to configure and troubleshoot routers and switches for advanced functionality using security best practices and resolve common issues with protocols in both IPv4 and IPv6 networks. By the end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Configure VLANs and Inter-VLAN routing applying security best practices. • Troubleshoot inter-VLAN routing on Layer 3 devices. • Configure redundancy on a switched network using STP and EtherChannel. 		Cisco Certificate of Course Completion

				<ul style="list-style-type: none"> • Troubleshoot EtherChannel on switched networks. • Explain how to support available and reliable networks using dynamic addressing and first-hop redundancy protocols. • Configure dynamic address allocation in IPv6 networks. • Configure WLANs using a WLC and L2 security best practices. • Configure switch security to mitigate LAN attacks. • Configure IPv4 and IPv6 static routing on routers. 	
NSAT 1130	CCNA 3 – Enterprise Networking, Security & Automation (ENSA)	84 Hours (6 weeks)	Instructor Led NetAcad LMS	<p>CCNA 3 – Enterprise Networking, Security & Automation describes the architecture, components, operations, and security to scale for large, complex networks, including wide area network (WAN) technologies. The course emphasizes network security concepts and introduces network virtualization and automation. Students learn how to configure, troubleshoot, and secure enterprise network devices and understand how application programming interfaces (API) and configuration management tools enable network automation. By the end of the course, students will be able:</p> <ul style="list-style-type: none"> • Configure single-area OSPFv2 in both point-to-point and multiaccess networks. • Explain how to mitigate threats and enhance network security using access control lists and security best practices. • Implement standard IPv4 ACLs to filter traffic and secure administrative access. • Configure NAT services on the edge router to provide IPv4 address scalability. 	Cisco Certificate of Course Completion

				<ul style="list-style-type: none"> • Explain techniques to provide address scalability and secure remote access for WANs. • Explain how to optimize, monitor, and troubleshoot scalable network architectures. • Explain how networking devices implement QoS. • Implement protocols to manage the network. • Explain how technologies such as virtualization, software defined networking, and automation affect evolving networks. 	
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AWS Certified Cloud Practitioner (4 weeks, 64 hours)

The AWS Certified Cloud Practitioner (CLF-C01) exam is intended for individuals who can effectively demonstrate an overall knowledge of the AWS Cloud independent of a specific job role. The exam validates a candidate's ability to complete the following tasks:

- Explain the value of the AWS Cloud
- Understand and explain the AWS shared responsibility model
- Understand security best practices
- Understand AWS Cloud costs, economics, and billing practices
- Describe and position the core AWS services, including compute, network, databases, and storage
- Identify AWS services for common use cases

Pre-requisites

The target candidate should have 6 months, or the equivalent, of active engagement with the AWS Cloud, with exposure to AWS Cloud design, implementation, and/or operations.

Recommended AWS knowledge

The target candidate should have the following knowledge:

- AWS Cloud concepts
- Security and compliance within the AWS Cloud
- Understanding of the core AWS services
- Understanding of the economics of the AWS Cloud

Exam Format

90 minutes to complete the exam

Format: 65 questions; either multiple choice or multiple response

Target Audience

All working professionals, who wish to acquire new skills or who need to gain a high-level overview of Amazon Web Services.

Course Syllabus

Domain 1: Cloud Concepts

1.1 Define the AWS Cloud and its value proposition

1.2 Identify aspects of AWS Cloud economics

1.3 Explain the different cloud architecture design principles

Domain 2: Security and Compliance

2.1 Define the AWS shared responsibility model

2.2 Define AWS Cloud security and compliance concepts

2.3 Identify AWS access management capabilities

2.4 Identify resources for security support

Domain 3: Technology

3.1 Define methods of deploying and operating in the AWS Cloud

3.2 Define the AWS global infrastructure

3.3 Identify the core AWS services

3.4 Identify resources for technology support

Domain 4: Billing and Pricing

4.1 Compare and contrast the various pricing models for AWS (for example, On-Demand Instances, Reserved Instances, and Spot Instance pricing)

4.2 Recognize the various account structures in relation to AWS billing and pricing

4.3 Identify resources available for billing support

Virtual Hands-on Practice Lab

Amazon Web Services (AWS) is one of the world's most popular Cloud Service Providers (CSPs). The AWS Cloud Service Provider provides cloud services such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS) and Software as a Service (SaaS).

In this Practice Labs title, the fundamentals of specific cloud services will be explored using practical exercises. To complete the modules, an AWS cloud subscription will be provided without signing up using a credit card.

This title consists of five modules starting with fundamental cloud concepts, building each module's skills level to further the knowledge of cloud concepts using practical application concepts.

Learning Outcomes/Domains:

Cloud Concepts
Technology

Lab Duration:

255 minutes

Skill(s):


Create AWS services
Create AWS Virtual Networking components
Create AWS Virtual Machines
Create cloud storage in AWS
Create a cloud database

Role(s):

AWS Cloud Administrator

Certification(s):

AWS Certified Cloud Practitioner (CLF-C01)

Network & Systems Admin Training – NSAT		56 Weeks	824 Hours	PART V: Addendum D – Grading Policy
NSAT 1140	Server Administration	120 hours (10 weeks)	Instructor Led eBook V Labs	NTI Certificate of Course Completion Server+ Certification from CompTIA
<p>Server Administration CompTIA Server+ ensures pros have the skills to work in data centers or cloud environments.</p> <p>CompTIA Server+ is a global certification that validates the hands-on skills of IT professionals who install, manage, and troubleshoot servers in data centers as well as on-premises and hybrid environments.</p> <p>CompTIA Server+ is the only certification that can ensure that IT professionals at the administrator level are able to do the job in any environment because it is the only certification not restricted to a single platform. The exam covers essential hardware and software technologies of on-premises and hybrid server environments including high availability, cloud computing and scripting. The new exam includes performance-based questions that require the candidate to demonstrate multi-step knowledge to securely deploy, administer and troubleshoot servers.</p> <p>Student will go through these 9 modules instructor led with hands-on labs to be successful in server administration world:</p> <ul style="list-style-type: none"> • Module 1: Installing and Configuring Windows Server. • Module 2: Active Directory and Identity with Windows Server. • Module 3: Group Policy and Security with Windows Server. • Module 4: Installing and Configuring Domain Name System (DNS). • Module 5: Installing and Configuring Dynamic Host Configuration Protocol (DHCP). • Module 6: Installing and Configuring Windows Server Update Services (WSUS). • Module 7: Administration and Automation with Windows PowerShell. • Module 8: Installing and Configuring System Center Configuration Manager (SCCM). • Module 9: Introduction to On-Premises and Cloud Virtualization. 				
		<p style="text-align: center;">CompTIA SK0-005</p> <p>This Certification Exam covers Server Hardware installation and management, Server administration, security & disaster recovery, and Troubleshooting. (Maximum of 90 Questions / 90 Minutes / 750 on scale of 100 – 900 to pass)</p>		

supporting shared resources on a network. It represents a whole layer of relevant competencies to job seekers who want to manage and maintain servers or storage in business or datacenter environments.	
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SECURITY ADMINISTRATION TRAINING PROGRAM – SAT

Module 1 of 4	Security Administration Training – SAT			38 Weeks	576 Hours	PART V: Addendum D – Grading Policy
NSAT 0500	CompTIA ITF+	32 hours (4 weeks)	Instructor Led eBook V Labs	NTI Certificate of Course Completion ITF+ Certification from CompTIA		
<p>CompTIA IT Fundamentals certification is the essential qualification for beginning a career in IT Support.</p> <p>The CompTIA ITF+ exam will certify the successful candidate has the knowledge and skills required to identify and explain the basics of computing, IT infrastructure, software development and database use. In addition, candidates will demonstrate their knowledge to install software, establish basic network connectivity and identify/prevent basic security risks. Further, this exam will assess the candidate’s knowledge in the areas of troubleshooting theory and preventive maintenance of devices. This exam is intended for candidates who are advanced end users, are considering a career in IT, and are interested in pursuing professional-level certifications, such as A+.</p> <p>On course completion, you will be able to:</p> <ul style="list-style-type: none"> ▪ Set up a computer workstation and use basic software applications. ▪ Explain the functions and types of devices used within a computer system. ▪ Apply basic computer maintenance and support principles. ▪ Describe some principles of software and database development. ▪ Configure computers and mobile devices to connect to home networks and to the internet. ▪ Identify security issues affecting the use of computers and networks. 						
<p>This certification is designed as the starting point for a career in IT support. Obtaining ITF+ certification will show that you have the aptitude to pursue a</p>				CompTIA ITF+ FC0-U61		
				<p>The CompTIA IT Fundamentals+ certification exam FC0-U61 consists of 70 questions that take approximately one hour to complete. A passing score is 70% or higher.</p>		
				CompTIA ITF+ Domains		Weighting



professional-level certification, such as CompTIA A+.

1.0 IT Concepts and Terminology	17%	
2.0 Infrastructure	22%	
3.0 Application and Software	18%	
4.0 Software Development	12%	
5.0 Database Fundamentals	11%	6.0 Security 20%

Module 2 of 4		Security Administration Training – SAT		38 Weeks	576 Hours	PART V: Addendum D – Grading Policy
NSAT 1000	IT Essentials 7.0	256 hours (16 weeks)	Instructor Led NetAcad LMS	Cisco Certificate of Course Completion Letter of Congratulations from CEO of Cisco (=> 75% Final Exam)		
<p>IT Essentials 7.0 is designed for those seeking to prepare themselves for an Entry-level position in Information & Communication Technology (ICT). It aligns with CompTIA's A+ Hardware and Operating Systems Certification Exam Objectives. (See Below) This course, along with the other five (4) modules comprising NTI's Network & Systems Administration Training – NSAT program, gives the student both the breadth and depth of knowledge employers are looking for in Entry-level ICT job candidates. This course provides students with the following:</p> <ul style="list-style-type: none"> ▪ An introduction to advanced concepts ▪ Practical experience through Hands-on lab ▪ Troubleshooting skills using both real and virtual tools ▪ A working knowledge of how computers and mobile devices operate ▪ A basic ability to identify common security threats and vulnerabilities like malware, phishing, spoofing and social engineering ▪ Applied skills and procedures to install, configure, and troubleshoot computers, mobile devices, and software ▪ Critical thinking and problem-solving skills using both real endpoint and infrastructure devices ▪ Experience using Cisco Packet Tracer, Cisco's flagship network configuration emulation tool ▪ Immediate feedback on your work through built-in quizzes and test 						
				CompTIA A+ 220-1001	Hardware	



As the Industry Standard for establishing a career in ICT, the CompTIA A+ Certification is the foundation of your career. According to the “Global Knowledge 2017 IT Skills and Salaries Report”, the importance of a Certification among decision-makers rose from 35% in 2011, to 85% in 2016, to 94% in 2017!

This Certification Exam covers PC Hardware, Peripherals, Mobile Devices, Networking, Troubleshooting Hardware and Network Connectivity issues. (Maximum of 90 Questions / 90 Minutes / 675 on scale of 100 – 900 to pass)

CompTIA A+ 220-1002 Operating Systems

This Certification Exam covers installing and configuring operating systems including Windows, iOS, Android, Apple OS X and Linux. It also addresses Security, the Fundamentals of Cloud Computing & Operational Procedures. (Maximum of 90 Questions / 90 Minutes / 700 on scale of 100 – 900 to pass)

Module 3 of 4	Security Administration Training – SAT			38 Weeks	576 Hours	PART V: Addendum D – Grading Policy
SAT 2010	Cybersecurity Essentials	144 hours (9 weeks)	Instructor Led NetAcad LMS	Cisco Certificate of Course Completion Letter of Congratulations from CEO of Cisco (=> 75% Final Exam)		

The Cybersecurity Essentials course develops foundational understanding of cybersecurity and how it relates to information and network security. The 144-hour course introduces students to characteristics of cybercrime, security principles, technologies, and procedures to defend networks. Through interactive, multimedia content, lab activities, and multi-industry case studies, students build technical and professional skills to pursue careers in cybersecurity.

- Learn procedures to implement data confidentiality, integrity, availability and security controls on networks, servers, and applications.
- Understand security principles and how to develop security policies that comply with cybersecurity laws.
- Apply skills through practice, using labs and Cisco Packet Tracer activities.
- Get immediate feedback on your work through built-in quizzes and tests.
- Connect with the global Cisco Networking Academy community.

The demand for cybersecurity professionals has grown 3 times faster than any other IT job role and training a cybersecurity workforce is a priority of many governments and organizations. The regular attempts and occurrence of cyber-attacks has fueled the tremendous demand for professionals with cybersecurity skills.

CompTIA CySA+ Exam CS0-002



As the Industry Standard for establishing a career in ICT, the CompTIA CySA+ Certification is the foundation of your career in Cyber Security. According to the “Global Knowledge 2017 IT Skills and Salaries Report”, the importance of a Certification among decision-makers rose from 35% in 2011, to 85% in 2016, to 94% in 2017!

This Certification Exam covers Threat and Vulnerability Management, Software and Systems Security, Security Operations and Monitoring, Incident Response, Compliance and Assessment. (Maximum of 85 Questions / 165 Minutes / 750 on scale of 100 – 900 to pass)



Module 4 of 4	Security Administration Training – SAT			38 Weeks	576 Hours	PART V: Addendum D – Grading Policy
SAT 2020	CyberOps Associate	144 hours (9 weeks)	Instructor Led NetAcad LMS	Cisco Certificate of Course Completion Letter of Congratulations from CEO of Cisco (=> 75% Final Exam)		

The CyberOps Associate curriculum introduces the knowledge and skills needed for a Security Analyst working with a Security Operations Center team. It teaches core security skills needed for monitoring, detecting, investigating, analyzing, and responding to security events, thus protecting systems and organizations from cybersecurity risks, threats, and vulnerabilities. It includes an optional skills challenge to practice cybersecurity operations knowledge in a fun and engaging environment.

The curriculum is appropriate for students at many education levels and types of institutions, including secondary vocational students, 2-year and 4-year college students. By the end of the course, students will be prepared to:

- Understand cybersecurity operations network principles, roles, and responsibilities as well as the related technologies, tools, regulations, and frameworks available.
- Apply knowledge and skills to monitor, detect, investigate, analyze, and respond to security incidents.
- Apply for entry-level jobs as Associate Security Analyst and Incident Responder.
- Take the Cisco Certified CyberOps Certification exam.

CyberOps Associate is a hands-on, career-oriented course with an emphasis on practical experience to help students develop specialized skills to successfully handle the tasks, duties, and responsibilities of an associate-level Security Analyst working in a Security Operations Center (SOC).




As the Industry Standard for establishing a career in ICT, the Cisco CyberOps Certification is the foundation of your career. According to the "Global Knowledge 2017 IT Skills and Salaries Report", the importance of a Certification among decision-makers rose from 35% in 2011, to 85% in 2016, to 94% in 2017!

Cisco CBROPS 200-201

This Certification Exam covers Security Concepts, Security Monitoring, Host-Based Analysis, Network Intrusion Analysis, and Security Policies and Procedures. (Maximum of 95-105 Questions / 120 Minutes / 750-850 on scale of 1000 to pass)

CODING ADMINISTRATION TRAINING PROGRAM – CAT

Module 1 of 3		Coding Administration Training – CAT		30 Weeks	480 Hours	PART V: Addendum D – Grading Policy
CAT 3010	Programming Essentials in Python (PCAP)	160 hours (10 weeks)	Instructor Led NetAcad LMS	Cisco Certificate of Course Completion Letter of Congratulations from CEO of Cisco (=> 75% Final Exam)		
<p>Learn Python, the versatile programming language</p> <p>How great would it be to write your own computer program? Python is a multi-paradigm programming language used by startups and tech giants like Google, Facebook, Netflix, and more. With intuitive, readable syntax, Python is a great first programming language to learn.</p> <p>Programming skills open you up to careers in almost any industry and are required if you want to continue to more advanced and higher paying software development and engineering roles.</p> <p>This course is a great place to start learning Python – no prior programming knowledge required. Completing the course earns you a Statement of Achievement. It is split into two parts preparing you for two certifications:</p> <ul style="list-style-type: none"> Part 1 (PE1) prepares you for PCEP – Certified Entry-Level Python Programmer Certification. Part 2 (PE2) prepares you for PCAP – Certified Associate in Python Programming Certification. <p>You'll learn these core skills:</p> <ul style="list-style-type: none"> Think algorithmically – how to analyze a problem and translate it for a computer to process. Design, develop, and improve multi-module computer programs. Analyze and model real-life problems in Object-Oriented Programming categories. Understand a programmer's work in the software development process. Learn how a program is executed in a computer environment. Gain skills to create and develop your own programming portfolio. 						
 <p>As the Industry Standard for establishing a career in ICT, Certified Associate in Python Programming certification is a professional credential that measures your ability to accomplish coding tasks related to the basics of programming in</p>		PCAP-31-03				
				This Certification Exam covers the fundamentals of computer programming, the basic methods of formatting and outputting data offered by Python, Boolean values, the defining and using of functions, Python modules, and the fundamentals of OOP (Object Oriented Programming (Maximum of 40 Questions / 65 Minutes / 70% passing score)		
		Exam Syllabus				

the Python language and the fundamental notions and techniques used in object-oriented programming.


Exam block #1: Modules and Packages (12%)

Exam block #2: Exceptions (14%)

Exam block #3: Strings (18%)


Exam block #4: Object-Oriented Programming (34%)

Exam block #5: Miscellaneous (List Comprehensions, Lambdas, Closures, and I/O Operations) (22%)

Module 2 of 3		Coding Administration Training – CAT		30 Weeks	480 Hours	PART V: Addendum D – Grading Policy
CAT 3020	Programming Essentials in C++ (CPA)	160 hours (10 weeks)	Instructor Led NetAcad LMS	Cisco Certificate of Course Completion Letter of Congratulations from CEO of Cisco (=> 75% Final Exam)		
<p>CPA: Programming Essentials in C++ teaches the basics of programming in the C++ programming language, as well as the fundamental concepts and techniques used in object-oriented programming. The course begins with the universal basics, without relying on object concepts, then gradually extends to advanced concepts that are encountered using the objective approach.</p> <p>By the end of the course, students will be able to:</p> <ul style="list-style-type: none"> ▪ Describe the universal concepts of computer programming ▪ Use the syntax, semantics, and basic data types of the C++ language ▪ Understand the principles of the object-oriented model and its implementation in the C++ language ▪ Resolve typical implementation problems using standard C++ language libraries <p>The 160-hour, instructor-led course includes hands-on practice activities and over 100 lab exercises to reinforce learning, 16 quizzes and chapter assessments, and pre-final and final tests to measure understanding.</p>						
 <p>As the Industry Standard for establishing a career in ICT, C++ Certified Associate Programmer (CPA) is a professional certificate that measures your ability to accomplish coding tasks related to the basics of programming in the C++ language and the fundamental notions and</p>		CPA-21-02				
		<p>This Certification Exam covers the universal concepts of computer programming; the syntax and semantics of the C++ language as well as basic data types offered by the language; the principles of the object-oriented model and its implementation in the C++ language; the means useful in resolving typical implementation problems with the help of standard C++ language libraries. (Maximum of 40 Questions / 65 Minutes / 70% passing score)</p>				
		Exam Outline				

techniques used in object-oriented programming.

- Introduction to compiling and software development
- Basic scalar data types, operators, flow control, streamed input/output, conversions
- Declaring, defining, and invoking functions, function overloading
- Data aggregates
- Strings processing, exceptions handling, dealing with namespaces
- Object-oriented approach and its vocabulary
- Dealing with classes and objects, class hierarchy and inheritance
- Defining overloaded operators, user-defined operators, exceptions

Module 3 of 3		Coding Administration Training – CAT		30 Weeks	480 Hours	PART V: Addendum D – Grading Policy
CAT 3030	Advanced Programming in C++ (CPP)	160 hours (10 weeks)	Instructor Led NetAcad LMS	Cisco Certificate of Course Completion Letter of Congratulations from CEO of Cisco (=> 75% Final Exam)		
<p>CPP: Advanced Programming in C++ covers intermediate and advanced C++ programming topics for junior-level and specialist-level IT and software development jobs. The course includes hands-on labs, quizzes, and assessments to learn how to utilize the skills and knowledge gained on the course and interact with some real-life programming tasks and situations.</p> <p>By the end of the course, students will be able to:</p> <ul style="list-style-type: none"> ▪ Understand the C++ template mechanism. ▪ Read and understand definitions of template functions and classes. ▪ Use property template classes and methods, including third-party templates. ▪ Create template functions and classes. ▪ Understand and use the elements of the C++ STL library, including the IO part. ▪ Solve common programming problems with STL-predefined classes and methods. ▪ Apply your programming skills using hands-on lab activities and by writing your own C++ programs. <p>The 160-hour, instructor-led course includes hands-on practice activities and over 100 lab exercises to reinforce learning, 16 quizzes and chapter assessments, and pre-final and final tests to measure understanding.</p>						
 <p>As the Industry Standard for establishing a career in ICT, C++ Certified Professional Programmer (CPP) is a professional certificate that measures your ability to accomplish coding tasks related to the more advanced C++ topics such as</p>		CPP-22-02				
		Exam Outline		<p>This Certification Exam covers C++ template mechanism, reading and understanding definitions of template functions and classes; using property template classes and methods, including third party templates; creating template functions and classes; C++ STL library including the IO part; solving common programming problems with STL predefined classes and methods. (Maximum of 60 Questions / 65 Minutes / 70% passing score)</p>		





templates and the Standard Template Library.

- Templates
- STL Sequential containers
- STL Associative containers
- Non-modifying STL algorithms
- Modifying STL algorithms
- Sorting STL operations
- STL merge operations
- STL utilities and functional library
- STL Advanced I/O

BASIC COMPUTER TRAINING PROGRAM – BCT

	Basic Computer Training – BCT			20 Weeks	320 Hours	PART V: Addendum D – Grading Policy
BCT 4010	Introduction to MS Office 2019	320 hours (20 weeks)	Instructor Led NetAcad LMS	NTI Certificate of Course Completion MOS Certification, Word, Excel, PowerPoint, Outlook		
<p>Introduction to Microsoft Office is the first step toward earning the Microsoft Office Specialist (MOS) Certification. NTI has partnered with Labyrinth Learning to provide basic training to students who wish to prepare for one of the Microsoft Office Specialist (MOS) Certification Exams shown below. Each student receives a “Course Code” and a “License Key” to access the Labyrinth Learning “Essential Computing Skills & Building a Foundation with Microsoft Office 2019: The Basics” Online Course Module. This intensive Instructor Led Course Module provides an in-depth look at the most relevant topics in the four (4) Office 2019 applications shown below. Following several lessons on each application, the textbook concludes with a comprehensive, capstone integration project that incorporates skills from every application. Knowing how to use these applications is critical in today’s digital world and those who don’t are left behind.</p> <p>Content focus is on critical, job-ready topics and tasks, with a relentless focus on practical, real-world skills and common sense as well as step-by-step instruction to ensure that students stay engaged from the first chapter forward. Students move through increasingly independent exercises. The print textbook comes with a dynamic, engaging, and fully interactive ebook with embedded videos, Self-Assessment quizzes, and slide shows. The eLab Course Management Tool keeps track of Assessments and learner activity.</p> <p>Student will learn Microsoft Office (Word, Excel, PowerPoint, and Publisher), all about Email (Outlook, Webmail, Exchange), access to Cisco Online Get Connected (Internet, wireless, E-commerce), Operating Systems (Windows, iOS/MAC, Android) and Typing (EduTyping – 35 WPM). Students also work on career development learning and job placement assistance is provided.</p> <ul style="list-style-type: none"> ▪ Microsoft Office 365 Literacy ▪ All about Email (Outlook, Webmail, Exchange) ▪ Operating Systems (Windows, iOS/MAC, Android) ▪ Typing (Word Processing, Spreadsheets, Presentations) 						

Career Development Learning (Professionalism, Resume Building, Interview readiness skill & techniques, Career exploration)

Word 16	Exam 77-725	Weight	Excel 16	Exam 77-727	Weight
	Create and Manage Documents Format Text, Paragraphs and Sections Create Tables and Lists Create and Manage References Insert and Format Graphic Elements	25 – 30% 25 – 30% 20 – 25% 05 – 10% 20 – 25%		Create and Manage Worksheets / Workbooks Manage Data Cells and Ranges Create Tables Perform Operations w Formulas / Functions Create Charts and Objects	30 – 35% 15 – 20% 15 – 20% 10 – 15% 15 – 20%
Power 16	Exam 77-729	Weight	Outlook 16	Exam 77-731	Weight
	Create and Manage Presentations Insert and Format Text, Shapes, Images Insert Tables, Charts, SmartArt, Media Apply Transitions and Animations Manage Multiple Presentations	30 – 35% 20 – 25% 20 – 25% 10 – 15% 05 – 10%		Manage the Outlook Environ. for Productivity Manage Messages Manages Schedules Manage Contacts and Groups	20 – 25% 35 – 40% 35 – 40% 10 – 15%