LAIKIPIA UNIVERSITY CISCO ACADEMY BRONCHURE

CISCO COURSES

Cisco/CompTIA IT Essentials (PC Hardware and Software)

Description

The IT Essentials course provides hand-on training on computer hardware and software skills for the entry-level into information and communication technology professional courses. The curriculum covers the fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the other functions of an ICT professional.

Course Content

The Personal Computer, Computer Systems, Computer Assembly, (the Chipset, CPU, hyper-threading & overclocking, ROM & RAM types, DIMM, SIMM, serial ports, devices), Lab Procedures, Operating Systems (Windows, Linux, IOS), Portables Devices (Laptops, Mobile Phones (Android, Windows, IOS), Networking and Internet, Computer Security, Advanced Troubleshooting.

Course Duration

6 Weeks (80Hrs)

Assessment

The Course is examined through online Chapter Exams for every chapter, Final Online Exam and a Final Practical (skills) Exam.

Pre-Requisite

None

Cost

15,000/- inclusive of exams and certification.

Vision: A University for Valued Transformation of Society.
Mission: To serve students and society through research, education, scholarship, training, outreach and consultancy.
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LAIKIPIA

P.O. Box 1100-20300,
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CCNA 1 - Cisco Routing & Switching: *Introduction to Networks*

Description

The curriculum teaches comprehensive networking concepts and skills, from network applications to the protocols and services provided to those applications by the lower layers of the network. Students' progress from basic networking to more complex networks as well as advanced applications and services, with plenty of opportunities to gain hands-on practical experience and develop career skills. In each course, students learn technology concepts with the support of interactive media and apply and practice this knowledge through a series of hands-on and simulated activities that reinforce learning.

Course Content

Configuring a Network Operating System, Router Configuration, Network Protocols and Communications, Ethernet, IP Addressing using IPv4, IPv6, subnetting and supernetting, TCP and UDP communications, Applications and Protocols functionality, testing LANs, all practicals.

Course Duration

4 Weeks (60 Hours)

Assessment

The Course is examined through online Chapter Exams for every chapter, Final Online Exam and a Final Practical (skills) Exam.

Pre-Requisite

Cisco ITE, Computer Literacy at Diploma or Bsc level

Cost

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CCNA 2 Routing & Switching: *Routing and Switching Essentials*

Description

The curriculum introduces a broader course of study, in the continuing cisco programs. The curriculum is a continuation of CCNA 1 teaches comprehensive networking concepts and skills with a view of Client-ISP connectivity via static routing, optimizing LANs with packet segregation on VLANs and Inter-VLAN routing. It also introduces the students to WAN routing via dynamic routing protocols.

Course Content

Introduction to Switched Networks, Switching Concepts and Configuration, VLANs, Routing Concepts using IPv4 and using IPv6, Inter-VLAN Routing, LAN Redundancy, Link Aggregation, Static Routing, Routing Dynamically, Single-Area OSPF, OSPFv3 using IPv6, Access Control Lists, DHCP, Network Address Translation for IPv4.

Course Duration

4 Weeks (60 Hours)

Assessment

The Course is examined through online Chapter Exams for every chapter, Final Online Exam and a Final Practical (skills) Exam.

Pre-Requisite

CCNA 1

Cost

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CCNA 3 Routing & Switching: *Scaling Networks*

Description

The curriculum helps students develop workforce readiness skills and builds a foundation for success in networking-related careers and degree programs. Students will be prepared to provide extended routing and switching configurations in both a LAN and WAN environment in both IPv4 and IPv6 environments. courses introduces a broader course of study, in the continuing cisco programs.

Course Content

Introduction to Scaling Networks, LAN Redundancy, Link Aggregation, Wireless LANs on WiFi, Adjust and Troubleshoot Single-Area OSPF, Multiarea OSPF, EIGRP, EIGRP Advanced Configurations and Troubleshooting, IOS Images and Licensing.

Course Duration

4 Weeks (60 Hours)

Assessment

The Course is examined through online Chapter Exams for every chapter, Final Online Exam and a Final Practical (skills) Exam.

Pre-Requisite

CCNA 2

Cost

10,000/- inclusive of exams and certification.

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CCNA 4 Routing & Switching: *Connecting Networks*

Description

The curriculum helps students with extensive coverage of advanced applications and services, with plenty of opportunities to gain hands-on practical experience and develop career skills gained in earlier modules. Students will be prepared to provide extended routing and switching services for the WAN and gain knowledge required for interfacing with TSPs.

Course Content

Hierarchical Network Design, Connecting to the WAN, Point-to-Point Connections, PPP, HDLC encapsulation, Virtual Circuits, Frame Relay, Network Address Translation for IPv4, Broadband Solutions, Securing Site-to-Site Connectivity, Monitoring the Network, VPN Tunneling, IPsec Security, Troubleshooting the Network.

Course Duration

4 Weeks (60 Hours)

Assessment

The Course is examined through online Chapter Exams for every chapter, Final Online Exam and a Final Practical (skills) Exam.

Pre-Requisite

CCNA 3

Cost

10,000/- inclusive of exams and certification.

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Cisco CCNA SECURITY:

Description

The curriculum provides a next step for individuals who want to enhance their Cisco CCENT-level skill set and help meet the growing demand for network security professionals. The curriculum provides an introduction to the core security concepts and skills needed for the installation, troubleshooting, and monitoring of network devices to maintain the integrity, confidentiality, and availability of data and devices. CCNA Security helps students prepare for entry-level security career opportunities.

Course Content

CBAC/Classic Firewall & Zone based Firewall (ZFW), Configuring IPS on a Cisco Router using CCP, IDS configuration, Logging, Monitoring & VPN / Cryptography, Hashing & Digital signatures, Symmetric & Asymmetric Encryption, Configuring Site to Site VPNs, Remote VPNs, Endpoint Security, Cisco Security Agent (CSA), IronPort, San and Voice Security, SAN Security & Voice Security.

Course Duration

4 Weeks (80 Hours)

Assessment

The Course is examined through online Chapter Exams for every chapter, Final Online Exam and a Final Practical (skills) Exam.

Pre-Requisite

CCNA Certified

Cost

35,000/- inclusive of exams and certification.

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CISCO CCNP CISCO CERTIFIED NETWORK PROFESSIONAL

CCNP ROUTE

Students implement complex networks using multi-area OSPF and advanced EIGRP. They also implement BGP for exterior gateway routing, route injection and configure multicast routing using IPv6.

CCNP SWITCH

Students deploy multi-layer switching and configure HSRP for virtual gateways. Graduates have ability to plan and implement voice for networks as well as WiFi configuration and secure wireless networks.

CCNP TSHOOT

Students inspect, trouble shoot Routed networks set-up on the various routing protocols as well as identify configuration errors within a switched network. Students draw up the network map and re-configure the errors for optimum convergence.

Course Content

CCNP ROUTE

Policy-based Routing, BGP Concepts and Terminology, EBGP and IBGP, Configuring BGP, Advanced BGP Configuration and Verification, Selecting a BGP Path, Explaining Multicast, Multicast Routing Protocols, Multicast Configuration & Verification Explaining IPv6, IPv6 Addressing, IPv6 Routing, Describe basic VPN technologies.

CCNP SWITCH

Deploying CEF-Based Multilayer Switching, Inter-VLAN Routing Lab Exercises, Configuring Layer 3 Redundancy with HSRP, Configuring Layer 3 Redundancy with VRRP and GLBP, Introducing Wireless LANs, & Wireless WLANs, Planning for Implementation of Voice in a Campus, Accommodating Voice Traffic on Campus Switches, Switch Security Issues, Protecting Against Spoof Attacks & VLAN Attacks

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Course Duration

4 Weeks (80 Hours)

Assessment

The Course is examined through online Chapter Exams for every chapter, Final Online Exam and a Final Practical (skills) Exam.

Pre-Requisite

CCNA Certified

Cost

30,000/- per module, inclusive of exams and certification.

Linux Administration Course

Objective

The course aims to enable students to install, upgrade, secure and competently manage the Unix operating system on standard hardware, and use it to provide essential services on a network such as mail, web, database, application and proxy servers. It is aimed at professionals who are technically competent but may have had little or no prior exposure to the Linux environment.

Course Content

Open Source Applications and Licenses, Command Line, Files and Directories, Archiving and Compression, Pipes, Redirection, and REGEX, Basic Scripting, Computer Hardware, Managing Packages and Processes, Network Configuration, System and User Security, Users Ownership and Permissions, Securing Permissions, Links and File Locations.

Course Duration

4 Weeks (80 Hours)

Assessment

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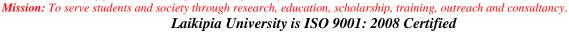ict@laikipia.ac.ke; www.laikipia.ac.ke

The Course is examined through online Chapter Exams for every chapter, Final Online Exam and a Final Practical (skills) Exam.

Pre-Requisite

ITE, Diploma or Bsc IT, Computer Literacy

Cost

10,000/- inclusive of exam and certification

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Oracle Database Management Course

Objectives

This course prepares the student with the ability to install and setup Oracle DBMS, understand the Oracle database architecture and how its components work and interact with one another. Use performance monitoring, database security, user management and backup/recovery techniques

Course Content

Introduction to Oracle 10g SQL, Retrieving data using SQL SELECT statement, Restricting and Sorting Data, Using Single-Row Functions to Customize Output, Reporting Aggregated Data Using the Group Functions, Displaying Data from Multiple Tables, Using Sub queries to Solve Queries, Using the SET Operators, Manipulating Data, Using DDL Statements to Create and Manage Tables, Creating Other Schema Objects Managing Objects with Data Dictionary Views, Controlling User Access, Manage Schema Objects, Manipulating Large Data Sets, Generating Reports by Grouping Related Data, Managing Data in Different Time Zones, Searching Data Using Advanced Sub queries, Hierarchical Retrieval, Performing Regular Expression Support and case Insensitive

Course Duration

4 Weeks (80 Hours)

Assessment

The Course is examined through online Chapter Exams for every chapter, Final Online Exam and a Final Practical (skills) Exam.

Pre-Requisite

ITE, Diploma or Bsc IT, Computer Literacy

Cost

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