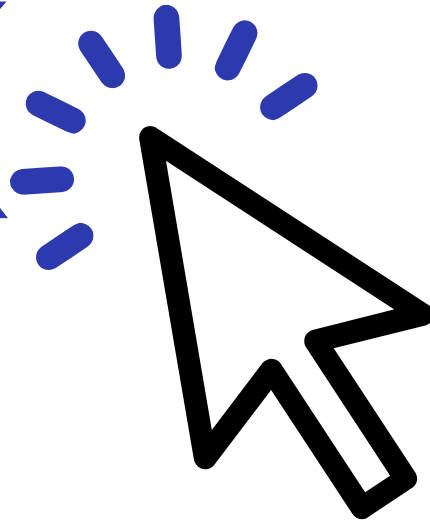




EMERGING
TECHNOLOGIES
INSTITUTE

YON

KLIK



POU

NOU

RIVE

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ABOUT THIS PROGRAM

“Yon Klik Pou Nou Rive” is a 1-year program that covers 4 different areas of information technology. These are operating systems and server technologies, software development, Internet and network technologies, and enterprise database systems. Occupational objectives include high-demand areas, such as Technical Support for Information Services, Network Systems Maintenance Technician, Computer Support Specialist, Information System Manager, Network and Computer Systems Administrator, Help Desk Technician, Systems Security Administrator, and Computer Programmer.

PROGRAM OUTLINE

Operating Systems and Server Technologies – Part 1

- CompTIA A+
 - o CompTIA A+ 220-901
 - o CompTIA A+ 220-902
- CompTIA Network+

Software Development

- Software Programming Fundamentals
- Programming in HTML5 with JavaScript and CSS3
- C++ Programming
- Mobile Application Development
 - o Programming Cross-Platform Applications in Visual Studio with Xamarin
 - o New Features in Android 5.x Lollipop for Developers
 - o Developing Apple Watch Applications
 - o Titanium
 - o Apache Cordova
 - o Ionic Framework
 - o PhoneGap
 - o Android App Development Essentials
 - o Android for .NET Developers
 - o Application Development with React and Flux
 - o Building Secure Mobile Apps
 - o Java and .NET Programming for IoT
 - o Programming with Kotlin
 - o Reactive Programming with Redux
 - o Developing Android Applications
 - o iOS 12 Application Development

Operating Systems and Server Technologies – Part 2

- Microsoft Windows 10
 - o Microsoft Windows 10: Installing and Configuring
 - o Microsoft Windows 10: Supporting Windows 10
 - o Microsoft Windows 10: Configuring Windows Devices
- Red Hat Linux – Red Hat Certified System Administrator RHEL 7
- Microsoft Skype for Business

Internet and Network Technologies

- Security Solutions
 - o Microsoft Security Fundamentals
 - o Securing Mobile Devices in the Enterprise
- Cloud Computing
 - o Cloud Computing Technology Fundamentals

- Google Cloud Platform Fundamentals
- Google G Suite Administrator
- Google Cloud Architect
- AWS Essentials
- Amazon Web Services Solution Architect – Associate 2018
- Amazon Web Services Solution Architect – Professional
- AWS Certified SysOps Administrator – Associate
- Amazon Web Services Certified Developer – Associate

Enterprise Database Systems

- Big Data
 - Big Data Fundamentals
 - Apache Spark Fundamentals
 - Apache Hadoop and MapReduce Essentials
 - Hadoop Ecosystem
 - Hadoop Operations
 - Big Data – The Corporate Leadership Perspective
 - Big Data – The Engineering Perspective
 - Big Data – The Legal Perspective
 - Big Data – The Marketing Perspective
 - Big Data – The Strategic Planning Perspective
 - Big Data – The Sales Perspective
 - Apache Spark Advanced Topics
 - Big Data Operations
 - Data Modeling for Hadoop
 - Designing and Implementing Big Data Analytics
 - Big Data Development with Apache Spark
 - Hadoop Installation and Maintenance

YON KLIK POU NOU RIVE

<u>Courses</u>	<u>Hours</u>
OPERATING SYSTEMS AND SERVER TECHNOLOGIES - PART 1	96.73
<u>CompTIA A+</u>	
<i>CompTIA A+ 220-902</i>	
Windows Overview and Installation	1.80
Windows Interaction and Personalization	0.65
Windows Utilities and Management	1.62
Windows Applications and Features	1.42
Adding Hardware to Windows and Storage Options	0.97
Networking with the Windows Operating System	1.53
Monitoring the Windows OS and an Introduction to Other OSs	1.58
Mac OSX Features and an Introduction to Linux	1.52
Shell and Terminal Commands for Linux or Mac OSX	1.25
Introduction to Mobile Operating Systems	1.87
Introduction to Virtualization and Basic Security Concepts	2.45
Windows Security Features and Management	2.45
Common Troubleshooting and Security Practices	1.82
A Practical Approach to Troubleshooting	1.97
Safety	0.83
Various Features and Requirements of Microsoft OS	1.27
<i>CompTIA A+ Exam 220-902</i>	
Introduction to Windows	1.13
Using and Managing Windows	0.73
Windows Networking	0.90
Non-Windows Operating Systems	1.05
Non-desktop Technologies	1.38
Desktop Security	1.47
Troubleshooting	0.90
Mobile Troubleshooting	0.88
Operational Procedures	0.80
<i>CompTIA A+ 220-901</i>	
Mentoring 220-901 CompTIA A+	
Motherboards	1.32
BIOS and Startup	1.55
RAM	1.18
Storage Solutions	1.55
CPUs	1.45

Connectors and Connections	0.88
Peripheral Devices	0.82
Display Devices	1.05
Different Computer Form Factors	0.85
Introduction to Networking	1.53
Network Protocols and Cabling	1.90
Wireless Networking	0.87
Broadband Routers	0.73
Internet Connections	1.08
Mobile Computing	1.28
Portable Computer Hardware	1.20
Printers	0.98
Printer Maintenance	1.03
Troubleshooting Printers	0.67
Miscellaneous Tools and Connectors	1.03
Troubleshooting Peripheral and Mobile Devices	1.48
TestPrep 220-901 CompTIA A+	1.50

CompTIA A+ Exam 220-901

BIOS Motherboards	0.78
Memory and Storage	0.62
PC Components	0.95
Monitors and Output Devices	0.68
Printers	0.65
Networking	0.82
Internet Connectivity	0.85
Laptops	0.57
Mobile Devices	0.55
Computer Hardware Troubleshooting	0.63
Troubleshooting Networking Devices	0.75
Troubleshooting Printers	0.43

Networking, Internetworking, and Security Technologies

CompTIA Network+ N10-007

Ports and Protocols and the OSI Model	1.78
Routing, Switching, & IP Addressing	3.05
Network Topologies & Technologies	1.65
Cloud Concepts, Network Services, & Cabling Solutions	2.77
Networking Devices	2.07
Network Storage, Virtualization, & WAN Technologies	1.67
Documentation and Diagrams & Business Continuity	1.83
Network Monitoring & Remote Access Methods	1.73
Policies and Best Practices	1.40
Security Devices, Wireless Security, & Access Control	1.82

Network Attacks & Device Hardening	2.75
Mitigation Techniques	1.48
Troubleshooting Methodology & Tools	1.08
Troubleshooting Connectivity & Performance Issues	1.50
Troubleshooting Common Network Service Issues	1.05
Additional Network Services	0.65

<u>Courses</u>	<u>Hours</u>
SOFTWARE DEVELOPMENT	108.74
<u>Programming Best Practices</u>	
<i>Software Programming Fundamentals</i>	
Design and Development Best Practices	1.57
Source Coding Best Practices	2.33
Software Security Best Practices	2.00
Best Practices for Maintaining Code	1.50
<u>Microsoft Web Applications</u>	
<i>Programming in HTML5 with JavaScript and CSS3</i>	
Introduction to HTML5 and CSS	1.30
Styling HTML5 and JavaScript	1.20
Advanced HTML5 and JavaScript	1.15
HTML5 APIs and Local Data Storage	0.78
More Advanced HTML5 and CSS3	0.80
Adaptive AI, Graphics, and Animation	1.30
Data Flow, Consuming, and Transmitting Data	0.70
Communicating with WebSockets	0.90
Advanced Input Validation	0.57
Advanced CSS	0.70
<u>Generic Languages</u>	
<i>C++ Programming</i>	
Fundamentals of C++ Programming	1.48
Data Types, Modifiers, Operators, and Flow Control	1.48
Functions, References, Exceptions Strings & Namespaces	1.78
C++ Classes	1.10
Classes, Functions, and Object-oriented Programming	1.13
C++ Templates and Containers	1.38
C++ Standard Template Library Algorithms and Operations	1.42
<u>Mobile Application Development</u>	
<i>Programming Cross-Platform Applications in Visual Studio with Xamarin</i>	
Xamarin Android and iOS Projects	1.87
Cross-Platform Shared Code and Xamarin.Forms	2.53
<i>New Features in Android 5.x Lollipop for Developers</i>	
Android Lollipop New Features for Developers	1.65
<i>Developing Apple Watch Applications</i>	
Developing Basic Apple Watch Applications	2.55

Developing Advanced Apple Watch Applications	2.28
<i>Titanium</i>	
Creating Mobile Apps with Appcelerator Titanium	1.42
Exploring the Advanced Features of Appcelerator Titanium	1.75
<i>Apache Cordova</i>	
Apache Cordova: Exploring the Basic Features	1.82
Apache Cordova: Exploring the Advanced Features	2.57
<i>Ionic Framework</i>	
Exploring the Basic Features of the Ionic Framework	1.83
Exploring the Advanced Features of the Ionic Framework	2.00
<i>PhoneGap</i>	
PhoneGap: Exploring Basic Features	1.50
PhoneGap: Exploring Advanced Features	2.00
<i>Android App Development Essentials</i>	
The Development of Android Applications	2.20
The Main Components of Android	2.17
User Interfaces, Controls, and Fragments	2.40
Designing, Creating, and Manipulating Android Databases	2.17
New Features of Android 7	1.45
<i>Android For .NET Developers</i>	
Introduction to Xamarin for .NET	3.18
Android OS	2.95
Android User Interface Elements	3.88
Different Approaches to Development	1.90
Java, Garbage Collection, Debugging, and Runtime	1.88
Advanced Design, Build, Android Wear, and Emulator	2.07
<i>Application Development with React and Flux</i>	
React and Flux: An Overview	1.47
React and Flux: Creating Simple React Components	1.23
React and Flux: React Router and Forms	1.90
React and Flux: Working with Flux	1.50
<i>Building Secure Mobile Apps</i>	
Tips and Tricks for Developing Secure Mobile Apps	0.83
<i>Java and .NET Programming for IoT</i>	
Programming in the IoT Arena	1.18

Programming with Kotlin

Introduction to Kotlin	0.47
Kotlin IDEs	0.45
Kotlin Syntax	0.93
Kotlin Loops and Functions	1.05
Kotlin Objects and Classes	1.12

Reactive Programming with Redux

Reactive Programming Using Redux	1.45
Build & Integrate React Applications with Redux Capabilities	1.42
Enhance Reactive Applications with Advanced React	1.17
Build and Test SPA Using React and Redux	1.15

Developing Android Applications

Introduction	1.10
App Structure and Formatting	1.00
App Layout	1.20
Creating an App with Java	1.40
Activities, Connectivity, and Services	0.82
Defensive Programming and Security	0.88
Debugging and Testing	0.87

iOS 12 Application Development

Getting Started with Xcode and iOS	0.80
Working with Layout and Controls in iOS	0.90
Working with Data and Gestures	0.92
Best Practices in iOS Security	0.87
Testing and Error Handling	1.07
Augmented Reality and HealthKit	1.00

CoursesHours**OPERATING SYSTEMS AND SERVER TECHNOLOGIES - PART 2****87.17**Microsoft Windows 10***Installing and Configuring***

Implementing Windows	0.95
Configuring Core Services	1.48
Managing and Maintaining Windows	1.45
Implementing Windows	1.20
Configuring Core Services	1.50
Managing Updates and Monitoring Windows	1.60
Managing Updates and Monitoring Windows	1.20

Supporting Windows 10

Supporting Operating System and Application Installation	1.35
Supporting Connectivity and Data Storage	1.18
Supporting Authentication, Permissions, and Data Security	1.38
Supporting Hardware, Performance, and Mobile Devices	0.77
Supporting Client Compliance and Managing Clients	1.07

Configuring Windows Devices

Introduction to Windows 10	1.95
Deploy Windows 10 with New and Traditional Tools	2.25
Configure Devices and Disks	1.43
Configure Networking and Remote Connections	2.30
Maintain and Configure Virtualization Technologies	1.78
Configure User Data	1.43
Configure Authentication and Secure Identities	2.62
Threat Resistance Technologies	2.07
Data Protection	1.78
Install and Manage Applications and Universal Windows Apps	2.62
Manage Windows 10 Devices	1.25
Introduction to Windows 10	0.55
Start Menu, Personalization, and Multitasking	1.28
Introduction to Deployment	0.82
Deployment Tools and Procedures	1.27
Devices and Disks	1.33
Networking	1.52
Remote Connections	0.65
Maintaining Windows 10	0.92
Virtualization Technologies	0.77
User Data	1.33
Authentication	1.27

Secure Identities	1.13
Threat Resistance and UAC	0.55
Threat Resistance Technologies	1.38
Data Protection	1.07
Bitlocker, Recovery, and Maintenance	0.58
Installing and Managing Applications	0.98
Universal Windows Apps	1.40
Managing Devices	1.18

Red Hat Linux

Red Hat Certified System Administrator RHEL 7

The Environment	1.95
The Command Line	1.90
Administration and Permissions	1.73
Scripting and Scheduling	2.45
Processes, Networking, and Logging	2.40
Advanced Networking	1.95
Remote Connections and Access	1.98
File Systems and Device Management	2.15
Boot Process and Installation	1.93
Introduction to Virtualization	2.00
SELinux and Troubleshooting	2.23

Microsoft Skype for Business

Skype for Business 2015

Planning, Installation, and Upgrading	1.53
Chatting and Conferencing	1.22
Client Configuration	1.13
Configuring Enterprise Voice	0.95
Archiving and External Access	0.88
High Availability and Disaster Recovery	1.03
Troubleshooting Skype for Business	1.17

Courses

Hours

INTERNET AND NETWORK TECHNOLOGIES 92.68

Security Solutions

Microsoft Security Fundamentals

Security Layers	1.17
Operating System Security	1.67
Network Security	1.32
Security Software	1.15
Core Security	1.00
Internet and Wireless Security	0.40
Encryption and Malware	1.30
Authentication	0.40
Authentication, Passwords & Audit Policies	0.50
Firewalls	0.60
Permissions	0.80
Network Isolation	0.50
Protocol Security	0.30
Client and Email Security	0.80
Server Protection	0.20

Securing Mobile Devices in the Enterprise

Mobile Security Threats	1.95
Mobile Security Technologies	1.70
Mobile Security Threat Mitigation	1.60
Configuring Enterprise-level Security	1.32

Cloud Computing

Cloud Computing Technology Fundamentals

Overview	1.83
Virtualization and Data Centers	1.38
Storing and Managing Cloud Data	2.07
Migrating to the Cloud	1.10
Identity, Presence, and Privacy	1.67
Cloud Security	2.02

Google Cloud Platform Fundamentals

Google Cloud	1.38
Container, Compute, & App Engine with Networking Services	1.35
Google Cloud Big Data and Machine Learning	1.20

Google G Suite Administrator

Google G Suite Admin: User Management	1.52
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Group and OU Management	0.73
E-mail and Calendar Management	1.33
G Suite: Security, Service, and Mobile Device Management	1.6

Google Cloud Architect

Google Cloud Basics	0.68
Google Cloud Design	0.75
Google Cloud Network Components	0.95
Google Cloud Web Applications and Name Resolution	0.73
Google Cloud Data Storage	0.98
Google Cloud Virtual Machine Deployment	0.57
Google Cloud Virtual Machine Configuration	0.82
Cloud Identity Management	0.63
Google Cloud Programmatic Access	0.57
Monitoring & Logging	0.52
Cloud Solution Management & Testing	0.47
Google Cloud Troubleshooting	0.5
CLI Cloud Resource Management	0.53

AWS Essentials

Cloud Primer	0.93
Management Tools	0.92
Storage	1.28
Networking	1.12
Virtual Machines and Identity and Access Management	1.52
WorkDocs	0.48
Other Services	0.82

Amazon Web Services Solution Architect - Associate 2018

AWS Primer	1.00
AWS Storage Solutions	0.90
Loose Coupling	0.30
Architecting for the Cloud	0.85
High Availability	0.95
Database Managed Services	0.87
Caching	0.73
Scalability and Elasticity	0.63
Architecture Security	1.02
Virtual Private Cloud	0.95
Optimizing Storage	0.87
Optimizing Compute Resources	0.92
Managing AWS	1.10
Amazon Machine Images	0.70
Auto Scaling	0.70

Building and Managing AWS Solutions	1.00
<i>Amazon Web Services Solution Architect – Professional</i>	
High Availability	0.75
Business Continuity	0.83
Costing	1.05
Deployment Management	0.80
Network Design	0.80
Data Storage	0.80
Data Replication	0.60
Security Controls	1.20
Data Security	1.10
Scalability and Elasticity	0.50
Cloud Migration	1.10
Hybrid Architecture	0.40
<i>AWS Certified SysOps Administrator – Associate</i>	
Introduction	0.68
Preparing for Cloud Service Management	0.45
Networking Services	0.80
Security and IAM Services	1.20
Compute Services	0.90
Storage Services	1.00
Database Services	0.90
Application Infrastructure	0.70
Monitoring the AWS Environment	0.90
High Availability	0.70
<i>Amazon Web Services Certified Developer - Associate</i>	
Principles and Essential Services	2.10
Application Development	1.70
Plan Application and Infrastructure Security	1.20
Service Integration and Orchestration	0.90
Serverless Application and Container Management	1.00
Code Management and Monitoring Tools	0.50

<u>Courses</u>	<u>Hours</u>
ENTERPRISE DATABASE SYSTEMS	97.65
<u>Big Data</u>	
<i>Big Data Fundamentals</i>	
The Big Data Technology Wave	1.80
Big Data Opportunities and Challenges	1.83
<i>Apache Spark Fundamentals</i>	
Programming and Deploying Apache Spark Applications	3.00
<i>Apache Hadoop and MapReduce Essentials</i>	
Apache Hadoop	1.98
MapReduce Essentials	2.02
<i>Hadoop Ecosystem</i>	
Ecosystem for Hadoop	1.58
Installation of Hadoop	2.52
Data Repository with HDFS and HBase	2.12
Data Repository with Flume	2.00
Data Repository with Sqoop	1.43
Data Refinery with YARN and MapReduce	1.62
Data Factory with Hive	2.08
Data Factory with Pig	1.88
Data Factory with Oozie and Hue	2.67
Data Flow for the Hadoop Ecosystem	1.90
<i>Hadoop Operations</i>	
Designing Hadoop Clusters	2.22
Hadoop in the Cloud	2.88
Deploying Hadoop Clusters	3.02
Hadoop Cluster Availability	2.80
Securing Hadoop Clusters	3.45
Operating Hadoop Clusters	2.92
Stabilizing Hadoop Clusters	3.73
Capacity Management for Hadoop Clusters	2.22
Performance Tuning of Hadoop Clusters	2.70
Cloudera Manager and Hadoop Clusters	3.85
<i>Big Data – The Corporate Leadership Perspective</i>	
Big Data Corporate Leadership Perspective	0.98
<i>Big Data – The Engineering Perspective</i>	

Big Data Engineering Perspectives	1.13
Big Data – The Legal Perspective	
Big Data - The Legal Perspective	0.70
Big Data - The Marketing Perspective	
Big Data Marketing Perspective	0.78
Big Data – The Strategic Planning Perspective	
Big Data Strategic Planning	0.88
Big Data – The Sales Perspective	
Big Data Sales Perspective	0.72
Apache Spark Advanced Topics	
Spark Core	2.08
Spark Streaming	2.68
MLlib, GraphX, and R	2.93
Big Data Operations	
Managing Big Data Operations	0.73
Quality and Security of Big Data Operations	0.72
Data Modeling for Hadoop	
Introduction to Hadoop	1.47
Introduction to Data Modeling in Hadoop	1.12
Designing and Implementing Big Data Analytics	
Ingesting Data and Computing for Batch Processing	1.57
Designing Batch Processing and Data Security	1.98
Ingesting Data and Computing for Real-time Processing	1.55
Designing the Lambda Architecture and Real-time Processing	1.75
Provisioning an Azure Data Factory	1.33
Managing Activities and Data for Azure Big Data Analytics	1.53
Automation and Machine Learning	1.77
Big Data Development with Apache Spark	
Introduction to Apache Spark	1.03
Apache Spark SQL	1.17
Structured Streaming	1.22
Spark Monitoring and Tuning	0.98
Spark Security	0.60

Hadoop Installation and Maintenance

Hadoop Distributed File System	0.60
Hadoop Clusters	0.88
Apache Hadoop on Amazon EMR	0.90
Hadoop Ranger	0.93
Hadoop Maintenance and Distributions	0.72

SUMMARY

HOURS

OPERATING SYSTEMS AND SERVER TECHNOLOGIES - PART 1	➔	97
SOFTWARE DEVELOPMENT	➔	109
OPERATING SYSTEMS AND SERVER TECHNOLOGIES - PART	➔	87
INTERNET AND NETWORK TECHNOLOGIES	➔	93
ENTERPRISE DATABASE SYSTEMS	➔	98
TOTAL DURATION - YON KLIK POU NOU RIVE	➔	483
