



إدارة التطوير الإداري والتدريب

خطة البرامج التدريبية التعاقدية للعام التدريبي
2020/2019
الحاسب الآلي 1

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الحاسب الآلي 2

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إلى	من			
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IT Courses Outlines



وزارة الكهرباء والماء
إدارة التطوير الإداري والتدريب

Revit (Structure + Architecture)

من 25/6/2019 إلى 16/6/2019

General Objectives

Revit provides all of the tools needed for creating 3D models of the concrete reinforcement. Autodesk has made some significant improvements to the reinforcing tools and the rebar annotations that makes the process much easier. This course will provide the knowledge needed to produce complete, detailed and more accurate reinforcement designs using the various tools and utilities.

Course Title

- Revit

Duration

(40h)

Skills Earned:

- Revision enhancements.
- Navigation during redraw.
- Automatically linked views in PDF exports.
- Dynamo graphical programming interface.
- Work in perspective views.
- A360 Collaboration for Revit.
- Improved IFC file usability.

Prerequisites

- Basic structural engineering and design skills.

Audience

Architectural design, structural engineering, and construction.

Oracle Developer

من 30/6/2019 إلى 21/7/2019

General Objectives

Oracle Forms Developer is used to develop a form that can access an Oracle database and present the data. Wizards and utilities are provided to speed up application development. The source form (*.fmb) is created and compiled into an "executable" (*.fmx). The Forms application is run (interpreted) by the Forms Runtime process.

Course Title

- Oracle Forms Developer

Duration

(80h)

Skills Earned

- Use SQL statements to access the database.
- Create common Oracle Database objects.
- Code PL/SQL to create stored procedures, functions and triggers.
- Use Oracle Forms Builder to create user interfaces.

Prerequisites

- Oracle Database: Introduction to SQL.
- Oracle Database: Program with PL/SQL.
- Oracle Fusion Middleware 11G: Build Application with Oracle Forms.

Audience

- Computer Engineers, Programmer Designer, Data Management.

ICDL Arabic

من 25/7/2019 إلى 7/7/2019

General Objectives

The International Computer Driving License (ICDL) Concept is a global computer literacy initiative developed to raise the level of knowledge about Information Technology (IT) and increase the level of competence in using personal computers and common computer applications

Course Title

Duration

○ Concepts of Information Technology (ICT)	(10h)
○ Using the Computer and Managing Files	(10h)
○ Word Processing	(10h)
○ Spreadsheets	(10h)
○ Database	(10h)
○ Presentation	(10h)
○ Web Browsing and Communication	(10h)
○ Tests	(5h)

Skills Earned

- Increases productivity.
- Increases the quality of employee output Reduces time.
- Increases essential IT knowledge/skills.
- Increases confidence in computer use.
- Provides internationally recognised qualification.
- Provides a platform from which to move on to higher-level IT education.

Audience

- Public

Revit MEP

من 14/7/2019 إلى 23/7/2019

General Objectives

Revit building design software is specifically built for Building Information Modeling (BIM), including features for architectural design, MEP and structural engineering, and construction. Revit software delivers Building Information Modeling (BIM) tools for architectural design, MEP engineering, structural engineering, and construction, and enables coordination between disciplines.

Course Title

Revit MEP

Duration

(40h)

Skills Earned

- Revision enhancements
- Navigation during redraw
- Automatically linked views in PDF exports
- Dynamo graphical programming interface
- Work in perspective views
- A360 Collaboration for Revit
- Improved IFC file usability

Audience

Electrical engineer, and structural engineering, and construction.

Network+

من 21/7/2019 إلى 30/7/2019

General Objectives

This course intended for entry-level computer support professionals with a basic knowledge of computer hardware, software and operating systems. It is also suitable for those who wish to increase their knowledge and understanding of networking concepts and acquire the required skills to prepare for a career in network support or administration.

Course Title

- CompTIA Network +

Duration

(40h)

Skills Earned

- Basics of networking theory, concepts and networking methods.
- Basics of networking data delivery.
- Networking media, cabling and hardware.
- Networking protocols and the OSI model.
- Networking Operating Systems.
- TCP/IP fundamentals.
- Networking security, including preventing and responding to incidents.

Audience

- PC Technician, Field Service Technician, Senior Field Service Engineer, Network Technician, LAN Administrator, Windows Administrator, Senior Network Technician or Network Security Administrator.
- It is highly recommended to those who took A+.

Cloud Essentials

من 1/9/2019 إلى 10/09/2019

General Objectives

CompTIA Cloud Essentials Certification provides IT professionals with the necessary skills to operate effectively in a cloud environment. Understanding cloud based technologies is a highly desired skill, as businesses and enterprises move to this innovative, cost saving storage solution.

Course Title

CompTIA Cloud Essentials

Duration

(40 h)

Skills Earned

- Key concepts and terminology within cloud based technologies
- Processes involved in the evolving data center in the private cloud
- How to manage systems that have already adopted some type of cloud infrastructure
- Business and operational aspects of running a cloud
- A basic knowledge of IaaS, SaaS, PaaS, and DRaaS
- Impacts of IT Service Management

Audience

- Preferred trainees who took A+ and Network+.

ICDL English

من 26/9/2019 إلى 8/9/2019

General Objectives

The International Computer Driving License (ICDL) Concept is a global computer literacy initiative developed to raise the level of knowledge about Information Technology (IT) and increase the level of competence in using personal computers and common computer applications

Course Title

- Concepts of Information Technology (ICT) using the Computer And Managing Files.
- Word Processing
- Spreadsheets
- Database
- Presentation
- Web Browsing and Communication
- Tests

Duration

(10h)
(10h)
(10h)
(10h)
(10h)
(10h)
(5h)

Skills Earned

- Increases productivity.
- Increases the quality of employee output Reduces time.
- Increases essential IT knowledge/skills.
- Increases confidence in computer use.
- Provides internationally recognised qualification.
- Provides a platform from which to move on to higher-level IT education.

Audience

- Public

Oracle Database: Program with PL/SQL

من 15/9/2019 إلى 24/9/2019

General Objectives

- This Oracle Database: Program with PL/SQL training starts with an introduction to PL/SQL and then explores the benefits of this powerful programming language.

Course Title

- Oracle Database: Program with PL/SQL

Duration

(40h)

Skills Earned

- Fundamentals
- Defining Variables and Datatypes
- Using SQL in PL/SQL
- Program Structures to Control Execution Flow
- Using Composite Datatypes
- Using Cursors and Parameters
- Exception Handling
- Using and Managing Procedures
- Using and Managing Functions

Audience

- Computer Engineers, Programmer Designer, Data Management.

CCNP (Routing)

من 29/9/2019 إلى 8/10/2019

General Objectives

Cisco Certified Network Professional (CCNP) Routing certification validates that you have the ability to plan, implement, verify and troubleshoot local and wide area enterprise networks and that you can work collaboratively with specialists on advanced security, voice, wireless and video solutions.

Course Title

- Implementing Cisco IP Routing (ROUTE)

Duration

(40h)

Skills Earned

- Learn how to plan and execute regular network maintenance.
- Support and troubleshoot using technology- based processes.
- Learn implementation of routed and switched solutions in addition to troubleshooting techniques.

Prerequisite

- CCNA – Routing & switching certification, or the equivalent working knowledge and experience.

Audience

- Network Engineers, computer Engineers.

MCSA Web Application

من 6/10/2019 إلى 27/10/2019

General Objectives

The MCSA Web Applications demonstrates proficiency in web development languages and frameworks such as HTML5, JavaScript, CSS, C#, and ASP.NET. use modern programming and scripting languages - including HTML5, CSS3, JavaScript, C# and .Net - to develop web and mobile applications that meet a range of business needs. Skill sets validated by MCSD certifications revolve around numerous popular Microsoft technology platforms, including Azure, Office, Windows, Visual Studio and SharePoint.

Course Title

Duration

- | | |
|---|-------|
| ○ [20480] Programming in HTML5 with JavaScript and CSS3 | (40h) |
| ○ [20486] Developing ASP.NET MVC5 Web Applications | (40h) |

Skills Earned

- Use Microsoft Visual Studio 2017.
- Write Java Script/CSS3 and HTML5 code.
- Style HTML5 pages by using CSS3.
- Design and Implement Security.
- Design the Web Application Architecture.
- Develop ASP.Net MVC5 Web Application.
- Troubleshoot and Debug Web Applications.
- Design and Implement Security for Web Application.
- Create and consume ASP.NET Web API services.

Audience

- Programmer Designer, Computer Engineering. Web developer, software engineer, and mobile application developer.

Adobe Photoshop CC, illustrators, InDesign

من 28/10/2019 إلى 13/10/2019

General Objectives

This course is most valuable for individuals who have been given responsibilities to create or maintain a website. It will also be valuable for new web designers, web developers, and graphic artists who want to extend their skills in creating complete websites. Learning how to use Dreamweaver CC will enable the practitioner to create web pages and sites in the most efficient manner. Learn beginning to advanced graphic techniques. Adobe Illustrator is the ideal tool for designers, publishers and marketing professionals who need to create illustrations, logos, advertisements, or other graphic documents.

Course Title

Adobe Photoshop CC, illustrators, InDesign

Duration

(40h)

Skills Earned

- Maintain and administer websites with Dreamweaver's site and page management tools.
- Create fluid CSS layouts, implement mobile integration techniques, and share files over a server to work in a collaborative manner.
- Creating and working with shapes
- Work with custom paths
- Work with text
- Saving images for print and web
- Create complex illustrations
- Create vector versions of raster graphics
- Special effects

Audience

- Web designers.
- Web developers.
- Graphic designers.
- Graphic designers or people transitioning into a design job or with design responsibilities.

Ethical Hacking (EH)
من 14/11/2019 إلى 3/11/2019

General Objectives

This course will immerse the students into an interactive environment where they will be shown how to scan, test, hack, and secure their own systems. The lab intensive environment gives each student in-depth knowledge and practical experience with the current essential security systems.

Course Title

- Ethical Hacker

Duration

(50h)

Skills Earned

- Understanding how perimeter defences work and then be lead into scanning and attacking their own networks, no real network is harmed.
- Learn how intruders escalate privileges and what steps can be taken to secure a system.
- Learn about Intrusion Detection, Policy Creation, Social Engineering, DDoS Attacks, Buffer Overflows and Virus Creation.

Prerequisites

- At least two years of IT security experience and a strong working knowledge of TCP/IP.
- Security+ Prep Course is highly recommended.

Audience

- Security officers.
- Auditors.
- Security professionals & site administrators.

ICDL Arabic

من 10/11/2019 إلى 28/11/2019

General Objectives

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Course Title

Duration

○ Concepts of Information Technology (ICT) Using the Computer and Managing Files	(10h)
○ Word Processing	(10h)
○ Spreadsheets	(10h)
○ Database	(10h)
○ Presentation	(10h)
○ Web Browsing and Communication	(10h)
○ Tests	(5h)

Skills Earned

- Increases productivity.
- Increases the quality of employee output Reduces time.
- Increases essential IT knowledge/skills.
- Increases confidence in computer use.
- Provides internationally recognised qualification.
- Provides a platform from which to move on to higher-level IT education.

Audience

- Public

Oracle Database Administrator 11G

من 1/12/2019 إلى 10/12/2019

General Objectives

Oracle DBA 11g track introduces the internals of an Oracle Database, and the common activities of administrating an Oracle Database.

Course Title

Oracle Database Administrator 11 G (DBA 11 G)

Duration

(40h)

Skills Earned

- How to generate reports by retrieving and filtering data
- How to display data from multiple tables
- How to modify data in tables
- How to secure your data
- How to create database objects
- How to install Oracle software
- How to install and configure Oracle databases
- How to secure the database
- How to recover data after its loss
- How to backup and restore databases

Prerequisites

- Oracle Database: Introduction to SQL.
- Oracle Database 11g: Administration Workshop I
- Oracle Database 11g: Administration Workshop II

Audience

- Programmer Designer, Computer Engineering.

ITIL Foundation

من 1/12/2019 إلى 5/12/2019

General Objectives

This instructor-led course provides students with the knowledge of ITIL® terminology, structure and basic concepts and comprehension of core principles of ITIL® practices for service management required to sit for the for ITIL® Foundation certificate in IT Service Management certification examination.

Course Title

- The ITIL® Foundation Certificate in IT Service Management

Duration

(24h)

Skills Earned

- Identify the principles and concepts of IT Service Management based on ITIL.
- Identify the best practices of implementing ITIL in an organization.
- Define the terminology used in ITIL.
- Identify the concepts and definitions used in the Service Lifecycle.
- Define Service Strategy concepts.
- Define Service Design concepts.
- Define Service Operations concepts.
- Define Service Transition concepts.
- Define Continual Service Improvement concepts.
- Define the roles, processes, and components within key areas of IT Service Management based on ITIL.

Audience

IT Professionals, IT Support Staff, Application, Project and Business Managers, and any member of an IT team involved in the delivery of IT Services.

MS Project Basic & Advanced

من 8/12/2019 إلى 11/12/2019

General Objectives

This course is designed to familiarize you with the basic features and functions of Microsoft Project Professional 2017 so that you can use it effectively and efficiently in a real-world environment.

Students will learn the advanced features and functions of Microsoft Project Professional 2017.

Course Title

MS Project Basic & Advanced

Duration

(16h)

Skills Earned

- Creating a Project Plan File.
- Creating a Work Breakdown Structure.
- Creating and Assigning Resources.
- Finalizing the Project Plan.
- Exchanging Project Plan Data with Other Applications.
- Updating a Project Plan.
- Creating Custom Reports.
- Reusing the Project Plan Information.

Requirements

- You should already have basic and intermediate level skills with Microsoft Project.
- Basic proficiency with Windows UI
- Some familiarity with MS Office will make things even easier - but not absolutely required.

Audience

- Programmer Designer, Computer Engineering.

Cyber security

من 15/12/2019 إلى 24/12/2019

General Objectives

Cybersecurity is the protection of internet-connected systems, including hardware, software and data, from cyberattacks. In a computing context, security comprises cybersecurity and physical security -- both are used by enterprises to protect against unauthorized access to data centres and other computerized systems. Information security, which is designed to maintain the confidentiality, integrity and availability of data, is a subset of cybersecurity.

Course Title

Cyber Security

Duration

(40 h)

Skills Earned

- Application security
- Information security
- Network security
- Disaster recovery/business continuity planning
- Operational security
- End-user education

Audience

- Computer Engineering, Network Engineer.

MCSA: SQL Server

من 5/1/2020 إلى 26/1/2020

General Objectives

This track intended for IT Professionals who administer and maintain SQL Server 2017 databases. It focuses on the essential skills and knowledge to run and maintain the next wave of advanced database and information solutions.

Course Title

Duration

- | | |
|---|-------|
| ○ [20462] Administering Microsoft SQL Server Databases | (40h) |
| ○ [20463] Implementing a Data Warehouse with Microsoft SQL Server | (40h) |

Skills Earned

- Use Microsoft SQL Server 2017 Management Studio
- Retrieve and filter data
- Group and summarize data by using Transact-SQL
- Display data from multiple tables
- Modify data in tables
- Install and configure SQL Server 2017
- Secure a database
- Recover data after its loss
- Backup and restore databases
- Create and manage users
- Configure database mails, alerts and notifications

Audience

- Database Administrators.
- System Administrators.

CompTIA Linux+

من 19/1/2020 إلى 28/1/2020

General Objectives

CompTIA Linux+ provides a foundation for individuals to work and maintain Linux installations. Linux+ is valuable for those new to or currently working within the Linux operation system.

Course Title

- CompTIA Linux+

Duration

(40h)

Skills Earned

- Identify basic Linux concepts and perform basic Linux tasks & manage user and group accounts.
- Manage partitions and the Linux file system & various files in Linux.
- Work with Linux permissions and ownership.
- Print files & manage packages.
- Manage kernel services.
- Work with the Bash shell and shell scripts.
- Manage jobs and processes & system services.
- Configure network services & basic Internet services.
- Implement measures to secure a Linux system.
- Manage hardware associated with Linux systems.
- Troubleshoot Linux system issues.
- Install the Linux operating system.
- Configure the GUI.

Audience

- Public (preferred trainees who took A+ and Network+).

iPhone Application Development

من 16/2/2020 إلى 26/1/2020

General Objectives

This course focuses on building the knowledge and skills that students need to develop applications for iOS.

Course Title

Duration

- | | |
|---|-------|
| ○ Fundamentals of Swift | (20h) |
| ○ Developing iOS applications using SWIFT and Cocoa touch | (60h) |

Skills Earned

- Learn the basic of Swift language.
- How to use Swift classes.
- How to apply Object Oriented Programming using Swift Language.
- How to develop iPhone application.
- How to save your data in SQLite database.
- How to display the data in Picker view, Table view.
- How to upload your application to app store.

Prerequisites

- C++ Track or equivalent knowledge.

Audience

- Developers who have experience with other platforms and want to learn how to develop iOS apps.

IT Disaster Recovery

من 2/2/2020 إلى 13/2/2020

General Objectives

Businesses use information technology to quickly and effectively process information. Employees use electronic mail and Voice Over Internet Protocol (VOIP) telephone systems to communicate. Electronic data interchange (EDI) is used to transmit data including orders and payments from one company to another. Servers process information and store large amounts of data. Desktop computers, laptops and wireless devices are used by employees to create, process, manage and communicate information.

Course Title

IT Disaster Recovery

Duration

(50h)

Skills Earned

- Business Continuity and Disaster Recovery Overview
- Project Initiation
- Risk Assessment
- Business Impact Analysis
- Risk Mitigation Strategy Development
- Business Continuity/Disaster Recovery Plan Development
- Emergency Response & Recovery
- Training Testing Auditing
- BC/DR Plan Maintenance

Audience

Computer Engineering, IT management, Database Administrators.

VMWARE (Install, Configure and Manage)

من 9/2/2020 إلى 18/2/2020

General Objectives

VMware offers world-class certifications designed to validate and recognize IT professionals with the technical capabilities and real-world experience needed to effectively deploy VMware products and operate and maintain their VMware cloud environments, giving companies the confidence and peace of mind that their IT employees have the skills and experience needed to be successful in the cloud era.

Course Title

VMWARE -Desktop and mobility

Duration

(40)

Skills Earned

- Introduction to vSphere and the Software-Defined Data Centre.
- Creating Virtual Machines.
- vCenter Server.
- Configuring and Managing Virtual Networks.
- Configuring and Managing Virtual Storage.
- Virtual Machine Management.
- Resource Management and Monitoring.
- vSphere HA, vSphere Fault Tolerance, and Protecting Data.
- vSphere DRS .
- vSphere Update Manager.

Audience

Computer Engineering, IT management, network engineering.

ICDL English

من 1/3/2020 إلى 19/3/2020

General Objectives

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Course Title

Duration

○ Concepts of Information Technology (ICT)	(10h)
○ Using the Computer and Managing Files	(10h)
○ Word Processing	(10h)
○ Spreadsheets	(10h)
○ Database	(10h)
○ Presentation (10h)	
○ Web Browsing and Communication	(10h)
○ Tests	(5h)

Skills Earned

- Increases productivity.
- Increases the quality of employee output Reduces time.
- Increases essential IT knowledge/skills.
- Increases confidence in computer use.
- Provides internationally recognised qualification.
- Provides a platform from which to move on to higher-level IT education.

Audience

- Public

C++**من 8/3/2020 إلى 17/3/2020****General Objectives**

Analysing software requirements, Techniques of designing flow-charting Fundamental of programming using C++ Object oriented programming using C++

Course Title

- Flowcharting
- Fundamental of Programming (Visual C++)
- Object Oriented Programming (Visual C++)

Duration

(20 h)
(30 h)
(30 h)

Skills Earned

Analysing software requirements Techniques of designing flow-charting Fundamental of programming using C++ Object oriented programming using C++

Audience

Programmers, computer specialist.