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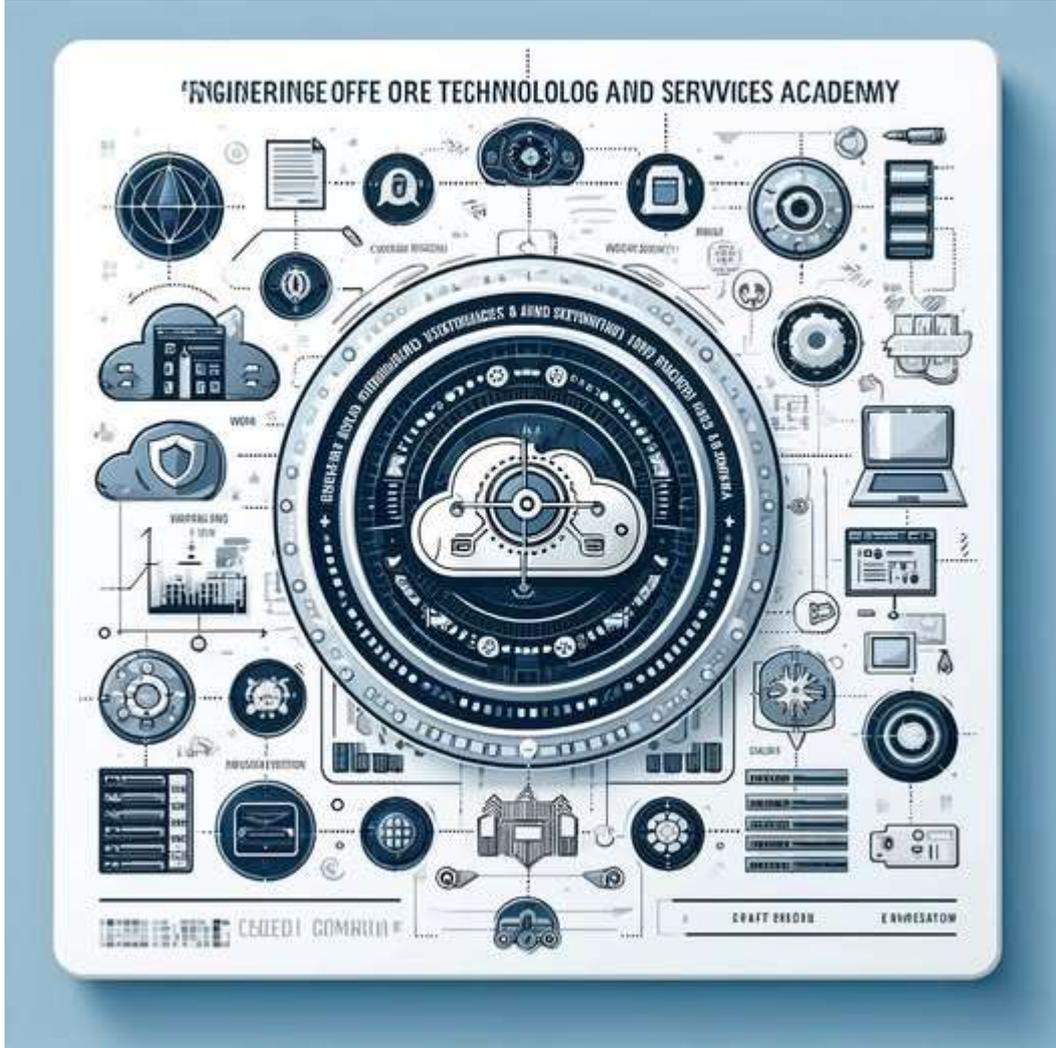
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المعهد الهندسي لخدمات التكنولوجيا والبرمجيات



Engineering office for Technology and Software Services

Master VMware Virtualization



Code: 15011-S

****Master VMware Virtualization - Detailed Training Plan****

Module 1: Introduction to Virtualization & VMware

- Understanding Virtualization (مفهوم الافتراضية) 

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- Benefits of Virtualization (فوائد الافتراضية) ✓
- Overview of VMware Products (VMware نظرة عامة على منتجات) 🏢
- Installing VMware Workstation & vSphere (VMware Workstation و vSphere تثبيت) 🛠️

Module 2: VMware vSphere Architecture

- Components of vSphere (vSphere مكونات) 🏠
- Understanding ESXi Hosts (ESXi فهم خوادم) 🖥️
- vCenter Server Overview (vCenter Server نظرة عامة على) 🇮🇪
- Configuring and Managing vSphere Networking (إعداد وإدارة شبكات vSphere) 🌐

Module 3: Virtual Machine Management

- Creating and Managing Virtual Machines (إنشاء وإدارة الأجهزة الافتراضية) ✂️
- VM Snapshots & Cloning (اللقطات والاستنساخ) 📷
- VMware Tools Installation (VMware تثبيت أدوات) ⚙️
- Resource Allocation & Management (تخصيص وإدارة الموارد) 📊

Module 4: Storage in VMware vSphere

- Types of VMware Storage (VMware أنواع التخزين في) 📁
- Configuring VMFS & NFS Datastores (VMFS و NFS تهيئة تخزين) 🗄️
- vSAN Configuration & Management (vSAN إعداد وإدارة) 🔄
- Storage Policies and Optimization (سياسات التخزين والتحسين) 📄

Module 5: Networking in VMware vSphere

- Virtual Networking Concepts (مفاهيم الشبكات الافتراضية) 🌐
- vSwitches & Distributed Switches (المفاتيح الافتراضية والموزعة) 🗣️
- VLANs & Network Security (الشبكات المحلية الافتراضية والأمان) 🗝️
- Load Balancing & Failover (موازنة التحميل والتبديل التلقائي) ⚖️

Module 6: High Availability & Disaster Recovery

- VMware HA & Fault Tolerance (التوفر العالي والتسامح مع الأخطاء) 🚦
- vMotion & Storage vMotion (نقل الأجهزة الافتراضية بدون توقف) 🚀

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- DRS & Resource Pools (التوزيع الديناميكي للموارد) 📊
 - Backup & Restore Strategies (استراتيجيات النسخ الاحتياطي والاستعادة) 📁
- ### Module 7: Security & Performance Optimization
- Securing VMware Environment (تأمين بيئة VMware) 🔒
 - Hardening vSphere & ESXi (تقوية vSphere و ESXi) 🔥
 - Performance Monitoring & Tuning (مراقبة الأداء وتحسينه) 📈
 - Best Practices for VMware Management (أفضل الممارسات لإدارة VMware) 🏆

Module 8: VMware Automation & Scripting

- Introduction to vSphere PowerCLI (مقدمة إلى vSphere PowerCLI) ⚡
- Automating Tasks with Scripts (أتمتة المهام باستخدام السكريبتات) 📄
- VMware Orchestrator Basics (أساسيات VMware Orchestrator) 📄
- Case Studies & Real-World Scenarios (دراسات حالة وسيناريوهات عملية) 🏆

Final Module: Certification & Career Guidance

- Preparing for VMware Certification (التحضير لشهادة VMware) 🎓
- Exam Tips & Best Resources (نصائح الامتحان وأفضل المصادر) 📖
- Career Paths in Virtualization (مسارات مهنية في الافتراضية) 🚀
- Hands-on Labs & Real-world Practice (مختبرات عملية وتطبيقات حقيقية) 🏢

Outcome of the Course: By the end of this course, participants will have a solid understanding of VMware virtualization technologies and will be able to configure, manage, and troubleshoot VMware environments efficiently. This will prepare them for industry-recognized certifications and career advancement in cloud and virtualization domains.

📌 **Target Audience:** IT professionals, System Administrators, Network Engineers, Cloud Engineers, and aspiring VMware Certified Professionals.

🚀 **Prerequisites:** Basic knowledge of networking, operating systems, and IT infrastructure.

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◆ **Certification Path:** VMware Certified Professional (VCP-DCV) & other advanced VMware certifications.

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