

# VMware 課程簡介

☑ 資料中心虛擬化 ☑ 雲端運算虛擬化 ☑ 桌面虛擬化 ☑ 網路虛擬化 ☑ Kubernetes ☑ Tanzu

| ICM    | VMware vSphere安裝及設定管理課程                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ICM                                                                                 |
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|        | VMware vSphere : Install, Configure, Manage [V8]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|        | 時數：35小時   費用：69,900元   點數：20.5點   教材：VMware原廠電子教材                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                     |
| 適合對象   | 1. 系統管理員<br>2. 系統工程師                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |
| 預備知識   | 具備Microsoft Windows或Linux作業系統的系統管理經驗                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |
| 課程目標   | <p>This five-day course features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere® 8, which includes VMware ESXi® 8 and VMware vSphere® 8. This course prepares you to administer a vSphere infrastructure for an organization of any size.</p> <p>This course is the foundation for most VMware technologies in the software-defined data center.</p> <p>課程結束後，您將能夠達成以下目標：</p> <ol style="list-style-type: none"> <li>1. Install and configure ESXi hosts</li> <li>2. Deploy and configure vCenter</li> <li>3. Use the vSphere Client to create the vCenter inventory and assign roles to vCenter users</li> <li>4. Create virtual networks using vSphere standard switches and distributed switches</li> <li>5. Create and configure datastores using storage technologies supported by vSphere</li> <li>6. Use the vSphere® ClientTM to create virtual machines, templates, clones, and snapshots</li> <li>7. Create content libraries for managing templates and deploying virtual machines</li> <li>8. Manage virtual machine resource allocation</li> <li>9. Migrate virtual machines with VMware vSphere® vMotion® and VMware vSphere® Storage vMotion®</li> <li>10. Create and configure a vSphere cluster that is enabled with VMware vSphere® High Availability and VMware vSphere® Distributed Resource SchedulerTM</li> <li>11. Manage the life cycle of vSphere to keep vCenter, ESXi hosts, and virtual machines up to date</li> </ol> |                                                                                     |
| 備註事項   | 課程優惠方案：<br>早鳥優惠價：開課前2周完成報名繳費，享有早鳥恆逸銀卡優惠價                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                     |
| 後續推薦課程 | VSOSS：VMware vSphere操作與擴展及安全課程                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                     |

| WhatsNew | VMware vSphere新增功能                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | WhatsNew                                                                              |
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|          | VMware vSphere : What's New [V8]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|          | 時數：14小時   費用：30,600元   點數：8點   教材：VMware原廠電子教材                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                       |
| 適合對象     | System architects, system administrators, IT managers, VMware partners, and individuals responsible for implementing and managing vSphere architectures who want to deploy vSphere 8.0 into their existing vSphere environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |
| 預備知識     | <p>This course requires completion of one of the following courses, or equivalent knowledge, plus administration experience with ESXi and vCenter Server :</p> <ul style="list-style-type: none"> <li>• VMware vSphere: Install, Configure, Manage</li> <li>• VMware vSphere : Operate, Scale, and Secure</li> <li>• VMware vSphere: Fast Track</li> <li>• VMware vSphere: Troubleshooting</li> <li>• Experience with working at the command line is helpful</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                       |
| 課程目標     | <p>In this 2-day course, you will explore the new features and enhancements in VMware vCenter® 8.0, VMware ESXi™ 8.0, and VMware vSphere® 8.0. Through use-case scenarios, demonstrations, labs, and simulations, you develop skills to implement and configure vSphere 8.0.</p> <p>課程結束後，您將能夠達成以下目標：</p> <ol style="list-style-type: none"> <li>1. Recognize the importance of key features and enhancements in vSphere 8.0</li> <li>2. Describe the purpose of VMware vSphere® Distributed Services Engine™</li> <li>3. Use VMware vSphere® Lifecycle Manager™ to update an ESXi host that has a data processing unit (DPU)</li> <li>4. Identify devices supported for system storage on ESXi 8.0</li> <li>5. Recognize enhancements to VM hardware compatibility settings</li> <li>6. Recognize changes related to vSphere Memory Monitoring and Remediation that improve VMware vSphere® Distributed Resource Scheduler™</li> <li>7. Describe the new virtual non-uniform memory access (vNUMA) topology settings in the VMware vSphere® Client™</li> <li>8. Use vSphere Lifecycle Manager and VMware vSphere® Auto Deploy™ to manage configuration specifications for hosts in a cluster</li> <li>9. Recognize vSphere Lifecycle Manager and Auto Deploy enhancements in vSphere 8.0</li> <li>10. Describe new cluster management features in Tanzu Kubernetes Grid 2.0</li> <li>11. Recognize the cloud benefits that VMware vSphere+ brings to on-premises workloads</li> <li>12. Identify discontinued or deprecated features and technology in vSphere 8.0</li> </ol> |                                                                                       |
| 後續推薦課程   | VSDW：VMware vSphere設計規劃課程                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                       |

| VSDW   | <h2>VMware vSphere設計規劃課程</h2> <p>VMware vSphere : Design [V8]</p> <p>時數：21小時   費用：50,700元   點數：15點   教材：VMware原廠電子教材</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
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| 適合對象   | Experienced system integrators and consultants responsible for designing and deploying vSphere environments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |
| 預備知識   | <p>This course requires completion of the following prerequisites :</p> <ul style="list-style-type: none"> <li>• ICM : VMware vSphere安裝及設定管理課程</li> <li>• VSOSS : VMware vSphere操作與擴展及安全課程</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                     |
| 課程目標   | <p>This three-day training course equips you with the knowledge, skills, and abilities to design a VMware vSphere® 8 virtual infrastructure. You follow a proven approach to design a virtualization solution that ensures availability, manageability, performance, recoverability, and security. The approach presented follows VMware best practices. This course discusses the benefits and risks of available design alternatives and provides information to support making sound design decisions.</p> <p>Given a case study, you practice your design skills by working with peers on a design project.</p> <p>課程結束後，您將能達成以下目標：</p> <ol style="list-style-type: none"> <li>1. Identify the business objectives for the vSphere environment</li> <li>2. Identify business requirements, constraints, assumptions, and risks for all layers in the vSphere environment</li> <li>3. Apply a framework to a design</li> <li>4. Analyze design choices and best-practice recommendations</li> <li>5. Create a design that ensures availability, manageability, performance, recoverability, and security</li> <li>6. Design the core management infrastructure for an enterprise</li> <li>7. Design the virtual data center for an enterprise</li> <li>8. Design the compute infrastructure for an enterprise</li> <li>9. Design the storage and networking infrastructures for an enterprise</li> <li>10. Design virtual machines to run applications in a vSphere infrastructure</li> <li>11. Design security, manageability, and recoverability features for an enterprise</li> </ol> |                                                                                     |
| 備註事項   | 此課程可協助您取得下列認證：VMware Certified Advanced Professional - Data Center Virtualization Design 2025 (VCAP-DCV Design 2025)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                     |
| 後續推薦課程 | VSTW : VMware vSphere疑難排除課程                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |

| VSOSS  | <h2>VMware vSphere操作與擴展及安全課程</h2> <p>VMware vSphere : Operate, Scale, and Secure [V8]</p> <p>時數：35小時   費用：84,400元   點數：25點   教材：VMware原廠電子教材</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
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| 適合對象   | 資深系統管理員、系統工程師和系統整合商                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                       |
| 預備知識   | <p>This course requires the following :</p> <ul style="list-style-type: none"> <li>• Attend VMware vSphere : Install, Configure, Manage [V8]</li> <li>• Equivalent knowledge and administration experience with ESXi and vCenter</li> <li>• Experience with working at the command line is highly recommended</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                       |
| 課程目標   | <p>This five-day course teaches you advanced skills for configuring and maintaining a highly available and scalable virtual infrastructure. Through a mix of lectures and hands-on labs, you configure and optimize the VMware vSphere® 8 features that build a foundation for a truly scalable infrastructure. Also, you discuss when and where these features have the greatest effect. Attend this course to deepen your understanding of vSphere and learn how vSphere advanced features and controls can benefit your organization.</p> <p>課程結束後，您將能夠達成以下目標：</p> <ol style="list-style-type: none"> <li>1. Configure and manage a VMware Tools Repository</li> <li>2. Configure vSphere Replication and recover replicated VMs</li> <li>3. Manage VM resource usage with resource pools</li> <li>4. Configure and manage vSphere networking and storage for a large and sophisticated enterprise</li> <li>5. Configure VMware vCenter Server® High Availability</li> <li>6. Use host profiles to manage VMware ESXi™ 8 host compliance</li> <li>7. Use the vSphere Client and the command line to manage certificates</li> <li>8. Monitor the vCenter, ESXi, and VMs performance in the vSphere client</li> <li>9. Secure VMware vCenter® 8, ESXi, and VMs in your vSphere environment</li> <li>10. Use Identity Federation to configure the vCenter to use external identity sources</li> <li>11. Use VMware vSphere® Trust Authority™ secure the infrastructure for encrypted VMs</li> </ol> |                                                                                       |
| 備註事項   | 此課程可協助您取得下列認證：VMware Certified Professional - Data Center Virtualization 2025 (VCP-DCV 2025)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                       |
| 後續推薦課程 | VSDW : VMware vSphere設計規劃課程                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                       |

VSTW

## VMware vSphere疑難排除課程

VMware vSphere : Troubleshooting [V8]

時數：35小時 | 費用：84,400元 | 點數：25點 | 教材：VMware原廠電子教材



適合對象 系統管理員、系統整合人員

預備知識

This course requires completion of one the following courses :

- VCP-DCV certification
- VMware vSphere : Install, Configure, Manage
- VMware vSphere : Operate, Scale and Secure

課程目標

This five-day training course provides you with the knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere® 8 environment. This course increases your skill level and competence in using the command-line interface, VMware vSphere® Client™, log files, and other tools to analyze and solve problems.

課程結束後，您將能夠達成以下目標：

1. Introduce troubleshooting principles and procedures
2. Use command-line interfaces, log files, and the vSphere Client to diagnose and resolve problems in the vSphere environment
3. Explain the purpose of common vSphere log files
4. Identify networking issues based on reported symptoms
5. Validate and troubleshoot the reported networking issue
6. Identify the root cause of networking issue
7. Implement the appropriate resolution to recover from networking problems
8. Analyze storage failure scenarios using a logical troubleshooting methodology
9. Identify the root cause of storage failure
10. Apply the appropriate resolution to resolve storage failure problems
11. Troubleshoot vSphere cluster failure scenarios
12. Analyze possible vSphere cluster failure causes
13. Diagnose common VMware vSphere® High Availability problems and provide solutions
14. Identify and validate VMware ESXi™ host and VMware vCenter® problems
15. Analyze failure scenarios of ESXi host and vCenter problems
16. Select the correct resolution for the failure of ESXi host and vCenter problems
17. Troubleshoot virtual machine problems, including migration problems, snapshot problems, and connection problems
18. Troubleshoot performance problems with vSphere components

備註事項

此課程可協助您取得下列認證：VMware Certified Professional - Data Center Virtualization 2025 (VCP-DCV 2025)

VSAAW

## VMware vSphere進階管理實作

VMware vSphere : Advanced Administration Workshop [V8]

時數：35小時 | 費用：84,400元 | 點數：25點 | 教材：VMware原廠電子教材



適合對象

1. 系統管理員
2. 系統工程師

預備知識

參加本課程前需要具備下列先決條件：

- 完成VSOSS：VMware vSphere操作與擴展及安全課程
- VMware Certified Professional – Data Center Virtualization (VCP-DCV)認證
- 具備Microsoft Windows或Linux作業系統的系統管理經驗

課程目標

這門為期五天的課程提供實作訓練，以教導學生一系列的技能，從執行VMware vSphere® 8例行管理任務，到複雜的vSphere操作和設定皆涵蓋在內。您可透過實驗室活動，體驗VMBeans這家虛構公司面對的現實生活情況。這類情況可讓您體驗到正在建立及擴充虛擬基礎架構的公司所面臨的現實生活情境。

此課程採用案例實作練習，不提供引導式逐步說明。為完成案例實作練習，您需要分析工作、研究，並推演需要的解決方案。課程中將提供參考資料與建議的說明文件。

此項課程約有90%的時間著重於應用程式，並經由實驗室進行授課。

課程結束後，您將能達成以下目標：

1. 啟用叢集功能，並設定vSphere儲存和網路
2. 使用主機設定檔將主機設定作業自動化
3. 使用Cluster Quickstart建立啟用VMware vSAN™的叢集
4. 設定VMware vCenter Server®身分識別供應商
5. 針對主機連線與儲存連線進行疑難排解
6. 在vSphere元件上執行生命週期作業
7. 在vSphere與虛擬機上實作安全性強化指南

| <div>VAAICM</div> <div> <b>VMware Aria Automation安裝及設定管理課程</b><br/>           VMware Aria Automation : Install, Configure, Manage [V8.X]<br/>           時數：35小時   費用：76,600元   點數：22.5點   教材：VMware原廠電子教材         </div> <div>VAAICM</div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| 適合對象                                                                                                                                                                                                                                       | System administrators and system integrators responsible for designing, implementing, and managing VMware Aria Automation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 預備知識                                                                                                                                                                                                                                       | <p>This course requires the students to have strong knowledge on basic VMware vSphere concepts. Students should be able to perform the following tasks with no assistance or guidance before enrolling in this course:</p> <ul style="list-style-type: none"> <li>• Create VMware vCenter® objects, such as data centers and folders</li> <li>• Create a virtual machine using a wizard or a template</li> <li>• Modify a virtual machine's hardware</li> <li>• Navigate through the vSphere Client</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 課程目標                                                                                                                                                                                                                                       | <p>During this five-day course, you focus on installing, configuring, and managing VMware Aria Automation™ 8.X on- premises systems. You learn how it can be used to automate the delivery of virtual machines, applications, and personalized IT services across different data centers and hybrid cloud environments. The course covers how VMware Aria Automation Consumption™ can aggregate content in native formats from multiple clouds and platforms into a common catalog.</p> <p>This course also covers interfacing VMware Aria Automation with other systems using VMware Aria Orchestrator and how to use VMware Aria Automation to manage Kubernetes systems and leverage other systems. In this course, you will use VMware Aria Automation Config™ as a configuration management tool.</p> <p>課程結束後，您將能夠達成以下目標：</p> <ol style="list-style-type: none"> <li>1. Describe the VMware Aria Automation architecture and use cases in cloud environments</li> <li>2. Describe the key services of VMware Cloud Automation Services™</li> <li>3. Manage VMware Aria Automation entities on VMware and third-party virtual and cloud infrastructures</li> <li>4. Install VMware Aria Automation with VMware Aria Suite Lifecycle</li> <li>5. Configure and manage cloud accounts, projects, flavor mappings, image mappings, network profiles, storage profiles, volumes, tags, and services</li> <li>6. Create, modify, manage, and deploy VMware Aria Automation Templates</li> <li>7. Customize services and virtual machines with cloudConfig and cloudbase-init</li> <li>8. Configure and manage VMware Aria Automation Consumption</li> <li>9. Configure and manage ABX actions, custom properties, event broker subscriptions, and VMware Aria Automation Orchestrator workflows</li> <li>10. Connect to a Kubernetes cluster and manage namespaces</li> <li>11. Use VMware Aria Automation Config to configure and deploy systems</li> <li>12. Use logs and CLI commands to monitor and troubleshoot VMware Aria Automation</li> </ol> |
| 後續推薦課程                                                                                                                                                                                                                                     | VSTW：VMware vSphere疑難排除課程                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| <div>SRM</div> <div> <b>VMware Site Recovery Manager-SRM管理及設定</b><br/>           VMware Site Recovery Manager : Install, Configure, Manage [V8.X]<br/>           時數：14小時   費用：30,600元   點數：8點   教材：VMware原廠電子教材         </div> <div>SRM</div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 適合對象                                                                                                                                                                                                                                          | 負責部署或管理Site Recovery Manager的vSphere管理員、架構設計師、系統工程師和系統整合商                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 預備知識                                                                                                                                                                                                                                          | <p>需要先完成以下任一課程：</p> <ul style="list-style-type: none"> <li>• ICM：VMware vSphere安裝及設定管理課程</li> <li>• VMware vSphere：Fast Track</li> <li>• WhatsNew：VMware vSphere新增功能</li> <li>• VSTW：VMware vSphere疑難排除課程</li> </ul> <p>或具備使用VMware ESXi™和VMware vCenter Server™的同等知識與管理經驗</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 課程目標                                                                                                                                                                                                                                          | <p>This two-day, hands-on training course gives experienced VMware vSphere® administrators the knowledge to install, configure, and manage VMware Site Recovery Manager™ 8.X. This course also shows you how to write and test disaster recovery plans that use Site Recovery Manager.</p> <p>課程結束後，您將能夠達成以下目標：</p> <ol style="list-style-type: none"> <li>1. Summarize the components of Site Recovery Manager architecture</li> <li>2. Deploy and configure the Site Recovery Manager appliance</li> <li>3. Describe the principal disaster recovery topologies that are used with Site Recovery Manager</li> <li>4. Configure inventory and resource mappings</li> <li>5. Describe the storage replication options that are used with Site Recovery Manager</li> <li>6. Configure Site Recovery Manager to leverage array-based replication</li> <li>7. Describe VMware vSphere® Replication™ functionality</li> <li>8. Describe the vSphere Replication architecture</li> <li>9. Deploy and configure vSphere Replication for use with Site Recovery Manager</li> <li>10. Build Site Recovery Manager protection groups based on vSphere Replication</li> <li>11. Build, edit, execute, test, and remove a recovery plan</li> <li>12. Perform a planned migration</li> <li>13. Perform reprotect and failback using Site Recovery Manager and vSphere Replication</li> </ol> |
| 後續推薦課程                                                                                                                                                                                                                                        | VSTW：VMware vSphere疑難排除課程                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| VSANICM | <h2>VMware vSAN安裝及設定管理</h2> <p>VMware vSAN : Install, Configure, Manage [V8]</p> <p>時數：28小時   費用：59,500元   點數：17.5點   教材：VMware原廠電子教材</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
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| 適合對象    | Storage and virtual infrastructure consultants, solution architects, and administrators who are responsible for production support and administration of VMware vSAN 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |
| 預備知識    | <p>參加本課程前需要先完成下列課程：</p> <ul style="list-style-type: none"> <li>• ICM：VMware vSphere安裝及設定管理課程或同等知識</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                     |
| 課程目標    | <p>During this four-day course, you will gain the knowledge, skills, and tools to plan and deploy a VMware vSAN™ cluster. You will learn about managing and operating vSAN. This course focuses on building the required skills for common Day-2 vSAN administrator tasks such as vSAN node management, cluster maintenance, security operations, troubleshooting and advanced vSAN cluster operations. You will learn these skills through the completion of instructor-led activities and hands-on lab exercises.</p> <p>課程結束後，您將能達成以下目標：</p> <ol style="list-style-type: none"> <li>1. Describe vSAN concepts</li> <li>2. Detail the underlying vSAN architecture and components</li> <li>3. Explain the key features and use cases for vSAN</li> <li>4. Identify requirements and planning considerations for vSAN clusters</li> <li>5. Explain the importance vSAN node hardware compatibility</li> <li>6. Describe the different vSAN deployment options</li> <li>7. Explain how to configure vSAN fault domains</li> <li>8. Detail how to define and create a VM storage policy</li> <li>9. Discuss the impact of vSAN storage policy changes</li> <li>10. Detail vSAN resilience and data availability</li> <li>11. Describe vSAN storage space efficiency</li> <li>12. Explain how vSAN encryption works</li> <li>13. Detail VMware HCI Mesh™ technology and architecture</li> <li>14. Detail vSAN File Service architecture and configuration</li> <li>15. Describe how to setup a stretched and a two-node vSAN cluster</li> <li>16. Describe vSAN maintenance mode and data evacuation options</li> <li>17. Define the steps to shut down a vSAN cluster for maintenance</li> <li>18. Explain how to use proactive tests to check the integrity of a vSAN cluster</li> <li>19. Use VMware Skyline Health™ for monitoring vSAN health</li> <li>20. Use VMware Skyline Health to investigate and help determine failure conditions</li> <li>21. Discuss vSAN troubleshooting best practices</li> <li>22. Describe vSAN Express Storage Architecture™ concepts</li> </ol> |                                                                                     |
| 後續推薦課程  | VSOSS：VMware vSphere操作與擴展及安全課程                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                     |

| VSANTW | <h2>VMware vSAN疑難排除課程</h2> <p>VMware vSAN : Troubleshooting [V8]</p> <p>時數：14小時   費用：32,000元   點數：8點   教材：VMware原廠電子教材</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
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| 適合對象   | Storage and virtual infrastructure administrators who want to be able to perform initial troubleshooting on their software- defined storage with vSAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                       |
| 預備知識   | <ul style="list-style-type: none"> <li>• Understanding of concepts presented in the VMware vSphere : Install, Configure, Manage course</li> <li>• Completion of the VMware vSAN : Deploy and Manage course or equivalent experience with vSAN</li> <li>• Experience working with command-line interfaces</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                       |
| 課程目標   | <p>In this two-day course, you focus on learning the tools and skills necessary to troubleshoot VMware vSAN™ 8 implementations. You gain practical experience with vSAN troubleshooting concepts through the completion of instructor- led activities and hands-on lab exercises.</p> <p>課程結束後，您將能達成以下目標：</p> <ol style="list-style-type: none"> <li>1. Describe the architectural components of vSAN and their roles</li> <li>2. Explain how the components interact with each other</li> <li>3. Explain the differences between object and component states</li> <li>4. Describe how to use Skyline Health to investigate and help determine failure conditions</li> <li>5. Explain how to use the command-line tools to help determine failure conditions</li> </ol> |                                                                                       |
| 後續推薦課程 | VSOSS：VMware vSphere操作與擴展及安全課程                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |

| NSX-ICM | <h2>VMware NSX安裝及設定管理課程</h2> <p>VMware NSX : Install, Configure, Manage [V4.X]</p> <p>時數：35小時   費用：76,600元   點數：22.5點   教材：VMware原廠電子教材</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
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| 適合對象    | Experienced security administrators or network administrators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                     |
| 預備知識    | <ul style="list-style-type: none"> <li>• Good understanding of TCP/IP services and protocols</li> <li>• Knowledge and working experience of computer networking, including switching and routing technologies (L2 through L3) and L2 through L7 firewall</li> <li>• Knowledge and working experience with VMware vSphere® environments</li> <li>• Knowledge and working experience with Kubernetes or VMware vSphere® with VMware Tanzu® environments</li> </ul> <p>Solid understanding of concepts presented in the following courses:</p> <ul style="list-style-type: none"> <li>• VMware Virtual Cloud Network Core Technical Skills</li> <li>• VMware Data Center Virtualization: Core Technical Skills</li> <li>• Kubernetes Fundamentals</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |
| 課程目標    | <p>This five-day, fast-paced course provides comprehensive training to install, configure, and manage a VMware NSX® environment. This course covers key features and functionality offered in the NSX 4.X releases, including the overall infrastructure, logical switching, logical routing, networking and security services, firewalls and advanced threat prevention, and more.</p> <p>課程結束後，您將能達成以下目標：</p> <ol style="list-style-type: none"> <li>1. Describe the architecture and main components of NSX</li> <li>2. Explain the features and benefits of NSX</li> <li>3. Deploy the NSX Management cluster and VMware NSX® Edge™ nodes</li> <li>4. Prepare VMware ESXi™ hosts to participate in NSX networking</li> <li>5. Create and configure segments for layer 2 forwarding</li> <li>6. Create and configure Tier-0 and Tier-1 gateways for logical routing</li> <li>7. Use distributed and gateway firewall policies to filter east-west and north-south traffic in NSX</li> <li>8. Configure Advanced Threat Prevention features</li> <li>9. Configure network services on NSX Edge nodes</li> <li>10. Use VMware Identity Manager™ and LDAP to manage users and access</li> <li>11. Explain the use cases, importance, and architecture of Federation</li> </ol> |                                                                                     |

| NSX-TO | <h2>VMware NSX疑難排除與操作課程</h2> <p>VMware NSX : Troubleshooting and Operations [V4.X]</p> <p>時數：35小時   費用：84,400元   點數：25點   教材：VMware原廠電子教材</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
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| 適合對象   | <ul style="list-style-type: none"> <li>• Experienced system administrators and network administrators</li> <li>• Network and security professionals who work with enterprise networks</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |
| 預備知識   | <p>Before taking this course, you must complete the following course：</p> <ul style="list-style-type: none"> <li>• VMware NSX: Install, Configure, Manage [V4.X]</li> </ul> <p>You should also have understanding or knowledge of these technologies：</p> <ul style="list-style-type: none"> <li>• Good understanding of TCP/IP services and protocols</li> <li>• Knowledge and working experience of computer networking and security, including：</li> </ul> <ol style="list-style-type: none"> <li>1. Switching and routing technologies (L2 and L3)</li> <li>2. Network and application delivery services (L4 through L7)</li> <li>3. Firewalling (L4 through L7)</li> <li>4. VMware vSphere environments</li> </ol> <p>The VMware Certified Professional – Network Virtualization certification is recommended.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                       |
| 課程目標   | <p>This five-day, hands-on training course provides the advanced knowledge, skills, and tools to achieve competency in operating and troubleshooting the VMware NSX infrastructure. This course introduces you to workflows of various networking and security constructs along with several operational and troubleshooting tools that help you manage and troubleshoot your VMware NSX environment.</p> <p>In addition, various types of technical problems are presented to you, which you will identify, analyze, and solve through a systematic process.</p> <p>課程結束後，您將能達成以下目標：</p> <ol style="list-style-type: none"> <li>1. Use the native tools available in NSX to identify and troubleshoot the problems</li> <li>2. Use VMware Aria Operations for Logs and VMware Aria Operations for Networks to identify and troubleshoot problems related to the NSX environment</li> <li>3. Explain the NSX infrastructure components and the communications between them</li> <li>4. Identify, analyze, and troubleshoot problems related to the management, control, and data planes in NSX</li> <li>5. Identify, analyze, and troubleshoot problems related to infrastructure preparation and VMware NSX Edge deployments</li> <li>6. Identify, analyze, and troubleshoot problems related to logical switching and logical routing</li> <li>7. Identify, analyze, and troubleshoot network security problems related to the Distributed firewalls, Gateway firewalls, and Distributed IDS/IPS</li> <li>8. Identify, analyze, and troubleshoot problems related to VPN and VMware NSX Advanced Load Balancer</li> <li>9. Identify the components and packet flows involved in the NSX datapath and troubleshoot related problems</li> </ol> |                                                                                       |

| <b>VKFCO</b> <b>VMware Kubernetes Fundamentals and Cluster Operations</b><br>VMware Kubernetes Fundamentals and Cluster Operations<br>時數：28小時   費用：59,500元   點數：17.5點   教材：VMware原廠電子教材 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| 適合對象                                                                                                                                                                                    | Anyone who is preparing to build and run Kubernetes clusters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 預備知識                                                                                                                                                                                    | <ul style="list-style-type: none"> <li>Linux concepts and command line proficiency</li> <li>General networking proficiency</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 課程目標                                                                                                                                                                                    | <p>This four-day course is the first step in learning about Containers and Kubernetes Fundamentals and Cluster Operations. Through a series of lectures and lab exercises, the fundamental concepts of containers and Kubernetes are presented and put to practice by containerizing and deploying a two-tier application into Kubernetes.</p> <p>課程結束後，您將能達成以下目標：</p> <ol style="list-style-type: none"> <li>1. Build, test, and publish Docker container images</li> <li>2. Become familiar with YAML files that define Kubernetes objects</li> <li>3. Understand Kubernetes core user-facing concepts, including pods, services, and deployments</li> <li>4. Use kubectl, the Kubernetes CLI, and become familiar with its commands and options</li> <li>5. Understand the architecture of Kubernetes (Control plane and its components, worker nodes, and kubelet)</li> <li>6. Learn how to troubleshoot issues with deployments on Kubernetes</li> <li>7. Apply resource requests, limits, and probes to deployments</li> <li>8. Manage dynamic application configuration using ConfigMaps and Secrets</li> <li>9. Deploy other workloads, including DaemonSets, Jobs, and CronJobs</li> <li>10. Learn about user-facing security using SecurityContext, RBAC, and NetworkPolicies</li> </ol> |
| 後續推薦課程                                                                                                                                                                                  | VTKGICM：VMware Tanzu Kubernetes Grid安裝及設定管理課程                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



| <b>VTKGICM</b> <b>VMware Tanzu Kubernetes Grid安裝及設定管理課程</b><br>VMware Tanzu Kubernetes Grid：Install, Configure, Manage [V2.0]<br>時數：28小時   費用：59,500元   點數：17.5點   教材：VMware原廠電子教材 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 適合對象                                                                                                                                                                               | Platform operators who are responsible for deploying and managing Tanzu Kubernetes clusters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 預備知識                                                                                                                                                                               | <ol style="list-style-type: none"> <li>1. Understanding of Kubernetes and the Kubernetes cluster architecture</li> <li>2. Experience deploying and managing multiple Kubernetes clusters</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 課程目標                                                                                                                                                                               | <p>During this four-day course, you focus on installing VMware Tanzu® Kubernetes Grid™ in a VMware vSphere® environment and provisioning and managing Tanzu Kubernetes Grid clusters. The course covers how to install Tanzu Kubernetes Grid packages for image registry, authentication, logging, ingress, multipod network interfaces, service discovery, and monitoring. The concepts learned in this course are transferable for users who must install Tanzu Kubernetes Grid on other supported clouds.</p> <p>課程結束後，您將能達成以下目標：</p> <ol style="list-style-type: none"> <li>1. Describe how Tanzu Kubernetes Grid fits in the VMware Tanzu® portfolio</li> <li>2. Describe the Tanzu Kubernetes Grid architecture</li> <li>3. Deploy and manage Tanzu Kubernetes Grid management and supervisor clusters</li> <li>4. Deploy and manage Tanzu Kubernetes Grid workload clusters</li> <li>5. Deploy, configure, and manage Tanzu Kubernetes Grid packages</li> <li>6. Perform basic troubleshooting</li> </ol> |

