

Whether your business hours are 9 to 5 or 24x7x365, your systems need to be up when you need them. SQLHAU®'s 4-day Mission Critical SQL Server class is for SQL Server professionals and IT admins alike, will teach you the technical and non-technical things you need to understand for solid high availability and disaster recovery solutions. You will also get hands-on experience with labs that reinforce the concepts taught during the class. Planning, implementing, and administering of the solutions will be covered, and will be taught by Microsoft MVP, author, and SQL Server high availability expert Allan Hirt.

Covering multiple versions of SQL Server (2008 through 2016) as well as multiple versions of Windows (including Windows Server 2012 R2 and the latest on 2016), this class will provide you with holistic and practical approaches to deploying highly available, reliable, and performing SQL Server implementations based on real world experience whether they are on physical servers, virtual machines on a hypervisor, in the public cloud, or a mixture in a hybrid configuration.

Features such as AlwaysOn Availability Groups, true multi-site failover clustering instances, and support for Windows Server Core will all be covered. Whether you have older SQL Server and Windows deployments, considering an upgrade to a newer version of SQL Server or Windows, or looking to implement a new solution that is mission critical, this workshop will teach you the skills required to plan, deploy, and administer highly available SQL Server instances and databases,.

HANDS-ON LABS

We know that it is easy to suffer from death by slides in a multi-day class. Demos are great, but the best way to learn is to do it yourself. This is why Mission Critical SQL Server has hands-on, real world lab exercises so you can actually experience things like clusters, FCIs, and AGs.

Not only does this class have labs, but we also recognize that each student may be at different experience levels. Mission Critical SQL Server has three levels, so whether you are a total beginner or someone more advanced who wants a challenge, we accommodate you.

WHAT STUDENTS ARE SAYING

Having Allan's last books ... on my shelf for years ... I was well aware of his knowledge with SQL Server failover and knew the course would cover a fair amount of information. Slides were kept to a minimum with lots of discussion of HA topics that a lot of in the trenches DBAs don't really consider.

Stuart Moore
Read his class review [here](#)

When I attend training I prefer labs that require thought when problems arise. These labs were challenging and provided the building blocks needed to build, troubleshoot, and maintain the WSFC.

Daryl Roche

REGISTER TODAY

Ready to sign up for Mission Critical SQL Server? Check our complete schedule of upcoming public classes. Note that some training events are delivered by us through selected worldwide partners.

www.sqlha.com/events

Have questions? Want to schedule a private class where we come onsite to you, maximizing your team's time and reducing costs? Contact us today.

sales@sqlha.com
(781)856-2366

Syllabus

Module 1: Mission Critical Basics

Ensuring that your SQL Server instances and databases are reliable, available, and highly performing takes much more than just technology or a single feature in SQL Server. Your overall strategy should encompass people and processes, both of which will be covered in this module that sets the foundation for the entire workshop.

Module 2: Windows Deployment for SQL Server

One of the challenges that many DBAs face is ensuring that the underlying Windows Server builds are done correctly. Topics such as deploying SQL Server on Windows Server Core will be covered, as well as the Windows portion of failover clustering from a SQL Server perspective. Considerations for clustered solutions, standalone servers, physical, virtual, and the cloud will all be discussed

Module 3: SQL Server Failover Cluster Instances

Besides understanding the Windows portion of clustering which is covered in the previous module, it is essential to know the SQL Server side as well. Learn how to plan, deploy, and administer clustered instances and deployments of SQL Server, including multi-site FCIs.

Module 4: AlwaysOn Availability Groups

Introduced in SQL Server 2012, the AlwaysOn Availability Groups feature not only provides a way to make databases highly available, but you may be able to take advantage of some of its benefits such as read-only replicas for reporting. Deploying availability groups is deceptively simple, and this module will show you how to plan, implement, and administer AGs, including multi-site architectures.

Module 5: Quorum

Quorum is an essential topic for any clustered deployment of SQL Server. Without it, an AG or FCI will be down. This module will focus on not only understanding quorum, but how to architect it keep the underlying WSFC up and running.

Module 6: Troubleshooting

Deploying FCIs and AGs is one thing. When something goes wrong, you need to be able to find out what happened. This module will show you methodologies and tools for troubleshooting issues in clustered environments.

Module 7: Patch Management

Patching is arguably the biggest cause of downtime in most environments. This module will discuss how to approach patching in both Windows and SQL Server to ensure that your outages are minimized.

Module 8: Solution Design

It isn't enough to only understand the technologies individually, or what you need to do such as making backups. You need to bring all of the requirements—both technical and non-technical, platform and administration—together and design the right solution for your deployment. You will learn how to approach this challenge and balance the different requirements and factors to produce an actionable plan, not just something that will live in a document or look good as a diagram in Visio.