

# Microsoft® Learning Certifications at a glance

## Microsoft® SQL and Visual Studio Certification Track

### Microsoft SQL Server 2008

#### TECHNOLOGY SPECIALIST PATHS – ONE EXAM TO EARN EACH OF THE MCCTS CERTIFICATIONS

<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>SQL Server 2008, Implementation and Maintenance</b></p> <p><b>Exam</b> 70-432:TS: Microsoft SQL Server 2008, Implementation and Maintenance</p> <p><b>Courses</b> 6231: Maintaining a Microsoft SQL Server 2008 Database (five days) (Release: Q4' 2008*) 6232: Implementing a Microsoft SQL Server 2008 Database (five days) (Release: Q4' 2008*) 2778: Writing Queries using SQL 2008 Transact (Release: Q4' 2008*)</p>	<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>SQL Server 2008, Database Development</b></p> <p><b>Exam</b> 70-433:TS: Microsoft SQL Server 2008, Database Development</p> <p><b>Courses</b> 6231: Maintaining a Microsoft SQL Server 2008 Database (five days) (Release: Q4' 2008*) 6232: Implementing a Microsoft SQL Server 2008 Database (five days) (Release: Q4' 2008*) 2778: Writing Queries using SQL 2008 Transact (Release: Q4' 2008*)</p>	<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>SQL Server 2008, Business Intelligence Development and Maintenance</b></p> <p><b>Exam</b> 70-448:TS: Microsoft SQL Server 2008, Business Intelligence Development and Maintenance</p> <p><b>Courses</b> 6234: Implementing and Maintaining Microsoft SQL Server 2008 Analysis Services (three days) (Release: Q4' 2008*) 6235: Implementing and Maintaining Microsoft SQL Server 2008 Integration Services (three days) (Release: Q4' 2008*) 6236: Implementing and Maintaining Microsoft SQL Server 2008 Reporting Services (three days) (Release: Q4' 2008*)</p>
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#### IT PROFESSIONAL PATHS – TWO EXAMS TO EARN EACH OF THE MCITP CERTIFICATIONS

<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>SQL Server 2008, Implementation and Maintenance</b></p> <p><b>Exam</b> 70-432:TS: Microsoft SQL Server 2008, Implementation and Maintenance</p>	→	<p><b>Microsoft Certified IT Professional</b></p> <p><b>Database Administrator 2008</b></p> <p><b>Exam</b> 70-450:PRO: Designing, Optimizing and Maintaining a Database Server Infrastructure Using Microsoft SQL Server 2008</p> <p><b>Course</b> 6315: Designing, Optimizing and Maintaining SQL Server 2008 Servers (5 days)*</p>
<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>SQL Server 2008, Database Development</b></p> <p><b>Exam</b> 70-433:TS: Microsoft SQL Server 2008, Database Development</p>	→	<p><b>Microsoft Certified IT Professional</b></p> <p><b>Database Administrator 2008</b></p> <p><b>Exam</b> 70-451:PRO: Designing Database Solutions and Data Access Using Microsoft SQL Server 2008</p> <p><b>Course</b> 6316: Designing, Optimizing and Maintaining SQL Server 2008 Databases (5 days)*</p>
<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>SQL Server 2008, Business Intelligence Development and Maintenance</b></p> <p><b>Exam</b> 70-448:TS: Microsoft SQL Server 2008, Business Intelligence Development and Maintenance</p>	→	<p><b>Microsoft Certified IT Professional</b></p> <p><b>Business Intelligence Developer 2008</b></p> <p><b>Exam</b> 70-452:PRO: Designing a Business Intelligence Infrastructure Using Microsoft SQL Server 2008</p> <p><b>Course</b> 6314: Designing, Optimizing and Maintaining SQL Server 2008 Business Intelligence (5 days)*</p>

#### MCITP : Database Administrator (SQL Server 2005) Upgrade Paths – ONE EXAM TO EARN 2 CREDENTIALS

<p><b>Microsoft Certified IT Professional</b></p> <p><b>Database Administrator (SQL Server 2005)</b></p>	→	<p><b>Microsoft Certified IT Professional</b></p> <p><b>Database Administrator 2008</b></p> <p><b>Exam</b> 70-453:UPGRADE: Transition your MCITP Database Administrator Skills to MCITP Database Administrator 2008</p>
<p><b>Microsoft Certified IT Professional</b></p> <p><b>Database Developer (SQL Server 2005)</b></p>	→	<p><b>Microsoft Certified IT Professional</b></p> <p><b>Database Developer 2008</b></p> <p><b>Exam</b> 70-454:UPGRADE: Transition your MCITP Database Developer Skills to MCITP Database Developer 2008</p>
<p><b>Microsoft Certified IT Professional</b></p> <p><b>Business Intelligence Developer (SQL Server 2005)</b></p>	→	<p><b>Microsoft Certified IT Professional</b></p> <p><b>Business Intelligence Developer 2008</b></p> <p><b>Exam</b> 70-455:UPGRADE: Transition your MCITP Business Intelligence Developer Skills to MCITP Business Intelligence Developer 2008</p>

### Microsoft SQL Server 2005

<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>SQL Server 2005</b></p> <p><b>Exam</b> 70-431:TS: Microsoft SQL Server 2005 – Implementation and Maintenance 2779: Implementing SQL Server 2005 Database (3 Days) 2780: Maintaining SQL Server 2005 Database (5 Days)</p>	→	<p><b>Microsoft Certified IT Professional</b></p> <p><b>Database Administrator</b></p> <p><b>Exams</b> 70-443:PRO: Designing a Database Server Infrastructure by Using Microsoft SQL Server 2005 70-444:PRO: Optimizing and Maintaining a Database Administration Solution by Using Microsoft SQL Server 2005</p> <p><b>Courses</b> 2786: Designing a SQL Server 2005 Infrastructure (2 Days) 2787: Designing Security for SQL Server 2005 (2 Days) 2788: Designing High Availability Database Solutions Using SQL Server 2005 (3 Days) 2789: Administering and Automating Microsoft SQL Server 2005 Databases and Servers (1 Day) 2790: Troubleshooting and Optimizing Database Servers Using SQL Server 2005 (2 Days)</p>
<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>SQL Server 2005 Business Intelligence – Implementation and Maintenance</b></p> <p><b>Exam</b> 70-445:TS: Microsoft SQL Server 2005 Business Intelligence – Implementation and Maintenance</p> <p><b>Courses</b> 2791: Implementing and Maintaining Microsoft SQL Server 2005 Analysis Services (3 Days) 2792: Implementing and Maintaining Microsoft SQL Server 2005 Integration Services (3 Days) 2793: Implementing and Maintaining Microsoft SQL Server 2005 Reporting Services (3 Days)</p>	→	<p><b>Microsoft Certified IT Professional</b></p> <p><b>Business Intelligence Developer</b></p> <p><b>Exam</b> 70-446:PRO: Designing and Developing a Business Intelligence Infrastructure by Using Microsoft SQL Server 2005</p> <p><b>Courses</b> 2794: Designing a Business Intelligence Solution for the Enterprise Using Microsoft SQL Server 2005 (2 Days) 2795: Designing an ETL Solution Architecture Using Microsoft SQL Server 2005 Integration Services (2 Days) 2796: Designing an Analysis Solution Architecture Using Microsoft SQL Server 2005 Analysis Services (3 Days) 2797: Designing a Reporting Solution Architecture Using Microsoft SQL Server 2005 Reporting Services (2 Days)</p>

#### Microsoft Certified Database Administrator (MCDBA) Upgrade Path

<p><b>Microsoft Certified Database Administrator</b></p> <p><b>Exam</b> 70-431:TS: Microsoft SQL Server 2005 – Implementation and Maintenance 2779: Implementing SQL Server 2005 Database (3 Days) 2780: Maintaining SQL Server 2005 Database (5 Days)</p>	→ 2 Exams →	<p><b>Microsoft Certified IT Professional</b></p> <p><b>Database Administrator</b></p> <p><b>Exam</b> 70-447:UPGRADE: MCDBA Skills to MCITP Database Administrator by Using Microsoft SQL Server 2005</p> <p><b>Courses</b> 2786: Designing a SQL Server 2005 Infrastructure (2 Days) 2787: Designing Security for SQL Server 2005 (2 Days) 2788: Designing High Availability Database Solutions Using SQL Server 2005 (3 Days) 2789: Administering and Automating Microsoft SQL Server 2005 Databases and Servers (1 Day) 2790: Troubleshooting and Optimizing Database Servers Using SQL Server 2005 (2 Days)</p>
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### Microsoft Visual Studio 2008

#### TECHNOLOGY SPECIALIST PATHS – ONE - THREE EXAM TO EARN CREDENTIALS

<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>NET Framework 3.5, Windows Presentation Foundation Applications</b></p> <p><b>Exams</b> 70-536:TS: Microsoft .NET Framework Application Development Foundation 70-502:TS: Microsoft .NET Framework 3.5, Windows Presentation Foundation Application Development</p> <p><b>Courses</b> 2956: Core Foundations of Microsoft .NET 2.0 Development (3 days) 2957: Advanced Foundations of Microsoft .NET 2.0 Development (3 days) 6460: Visual Studio 2008, Windows Presentation Foundation (3 days)</p>	<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>NET Framework 3.5, Windows Communication Foundation Applications</b></p> <p><b>Exams</b> 70-536:TS: Microsoft .NET Framework Application Development Foundation 70-503:TS: Microsoft .NET Framework 3.5, Windows Communication Foundation Application Development</p> <p><b>Courses</b> 2956: Core Foundations of Microsoft .NET 2.0 Development (3 days) 2957: Advanced Foundations of Microsoft .NET 2.0 Development (3 days) 6461: Windows Communication Foundation (3 days)</p>	<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>NET Framework 3.5, Windows Workflow Applications</b></p> <p><b>Exams</b> 70-536:TS: Microsoft .NET Framework Application Development Foundation 70-504:TS: Microsoft .NET Framework 3.5, Windows Workflow Foundation Application Development</p> <p><b>Courses</b> 2956: Core Foundations of Microsoft .NET 2.0 Development (3 days) 2957: Advanced Foundations of Microsoft .NET 2.0 Development (3 days) 6462: Visual Studio 2008, Windows Workflow Foundation (2 days)</p>
<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>NET Framework 3.5, Windows Forms Applications</b></p> <p><b>Exams</b> 70-536:TS: Microsoft .NET Framework Application Development Foundation 70-505:TS: Microsoft .NET Framework 3.5, Windows Forms Application Development</p> <p><b>Courses</b> 2956: Core Foundations of Microsoft .NET 2.0 Development (3 days) 2957: Advanced Foundations of Microsoft .NET 2.0 Development (3 days) 6463: Visual Studio 2008, Windows Forms (3 days)</p>	<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>NET Framework 3.5, ASP.NET Applications</b></p> <p><b>Exams</b> 70-536:TS: Microsoft .NET Framework Application Development Foundation 70-561:TS: Microsoft .NET Framework 3.5, ASP.NET Application Development</p> <p><b>Courses</b> 2956: Core Foundations of Microsoft .NET 2.0 Development (3 days) 2957: Advanced Foundations of Microsoft .NET 2.0 Development (3 days) 6464: Visual Studio 2008, ASP.NET 3.5 (2 days)</p>	<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>NET Framework 3.5, ASP.NET Applications</b></p> <p><b>Exams</b> 70-536:TS: Microsoft .NET Framework Application Development Foundation 70-562:TS: Microsoft .NET Framework 3.5, ASP.NET Application Development</p> <p><b>Courses</b> 2956: Core Foundations of Microsoft .NET 2.0 Development (3 days) 2957: Advanced Foundations of Microsoft .NET 2.0 Development (3 days) 6463: Visual Studio 2008, ASP.NET 3.5 (2 days)</p>

#### PROFESSIONAL DEVELOPER PATHS

<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>NET Framework 3.5, Windows Forms Applications</b></p> <p><b>Exams</b> 70-536:TS: Microsoft .NET Framework Application Development Foundation 70-505:TS: Microsoft .NET Framework 3.5, Windows Forms Application Development</p>	→	<p><b>Microsoft Certified Professional Developer</b></p> <p><b>Windows Developer 3.5</b></p> <p><b>Exam</b> 70-563:PRO: Designing and Developing Windows Applications using Microsoft .NET Framework 3.5</p>
<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>NET Framework 3.5, ASP.NET Applications</b></p> <p><b>Exams</b> 70-536:TS: Microsoft .NET Framework Application Development Foundation 70-562:TS: Microsoft .NET Framework 3.5, ASP.NET Application Development</p>	→	<p><b>Microsoft Certified Professional Developer</b></p> <p><b>ASP.NET Developer 3.5</b></p> <p><b>Exam</b> 70-564:PRO: Designing and Developing ASP.NET Applications using Microsoft .NET Framework 3.5</p>
<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>NET Framework 3.5, Windows Forms Applications</b></p> <p><b>Exams</b> 70-536:TS: Microsoft .NET Framework Application Development Foundation 70-505:TS: Microsoft .NET Framework 3.5, Windows Forms Application Development</p>	→	<p><b>Microsoft Certified Professional Developer</b></p> <p><b>Enterprise Application Developer 3.5</b></p> <p><b>Exam</b> 70-565:PRO: Designing and Developing Enterprise Applications using Microsoft .NET Framework 3.5</p>

### Microsoft Visual Studio 2005

<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>NET Framework 2.0 Web Applications</b></p> <p><b>Exams</b> 70-528: Microsoft .NET Framework 2.0 – Web-based Client Development 70-536: Microsoft .NET Framework 2.0 – Application Development Foundation</p> <p><b>Courses</b> 2541: Core Data Access with Microsoft Visual Studio 2005 (3 Days) 2542: Advanced Data Access Development with Visual Studio 2005 (2 Days) 2543: Core Web Application Technologies with Microsoft Visual Studio 2005 (2 Days) 2544: Advanced Web Application Development with Visual Studio 2005 (2 Days) 2956: Core Foundations of Microsoft .NET 2.0 Development (3 Days) 2957: Advanced Foundations of Microsoft .NET 2.0 Development (3 Days)</p>	→	<p><b>Microsoft Certified Professional Developer</b></p> <p><b>Web Developer</b></p> <p><b>Exam</b> 70-547: Designing and Developing Web Applications by Using the Microsoft .NET Framework</p>
<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>NET Framework 2.0 Windows Applications</b></p> <p><b>Exams</b> 70-528: Microsoft .NET Framework 2.0 – Web-based Client Development 70-536: Microsoft .NET Framework 2.0 – Application Development Foundation</p> <p><b>Courses</b> 2541: Core Data Access with Microsoft Visual Studio 2005 (3 Days) 2542: Advanced Data Access Development with Visual Studio 2005 (2 Days) 2543: Core Web Application Technologies with Microsoft Visual Studio 2005 (2 Days) 2544: Advanced Web Application Development with Visual Studio 2005 (2 Days) 2956: Core Foundations of Microsoft .NET 2.0 Development (3 Days) 2957: Advanced Foundations of Microsoft .NET 2.0 Development (3 Days)</p>	→	<p><b>Microsoft Certified Professional Developer</b></p> <p><b>Windows Developer</b></p> <p><b>Exam</b> 70-548: Designing and Developing Windows Applications by Using the Microsoft .NET Framework</p>
<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>NET Framework 2.0 Distributed Applications</b></p> <p><b>Exams</b> 70-529: Microsoft .NET Framework 2.0 – Distributed Application Development 70-536: Microsoft .NET Framework 2.0 – Application Development Foundation</p> <p><b>Courses</b> 2541: Core Data Access with Microsoft Visual Studio 2005 (3 Days) 2542: Advanced Data Access Development with Visual Studio 2005 (2 Days) 2548: Core Distributed Application Development with Microsoft Visual Studio 2005 (2 Days) 2549: Advanced Distributed Application Development with Microsoft Visual Studio 2005 (2 Days) 2956: Core Foundations of Microsoft .NET 2.0 Development (3 Days) 2957: Advanced Foundations of Microsoft .NET 2.0 Development (3 Days)</p>	→	<p><b>Microsoft Certified Professional Developer</b></p> <p><b>Enterprise Application Developer</b></p> <p><b>Exam</b> 70-549: Designing and Developing Enterprise Applications by Using the Microsoft .NET Framework</p> <p><i>Requires all 3 Technology Specializations</i></p>

#### Developer Upgrade Paths

<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>Application Developer</b></p> <p><b>Exam</b> 70-553:UPGRADE: MCSD Microsoft .NET Skills to MCPD Enterprise Application Developer by Using the Microsoft .NET Framework: Part 1 70-554:UPGRADE: MCSD Microsoft .NET Skills to MCPD Enterprise Application Developer by Using the Microsoft .NET Framework: Part 2</p> <p><b>Courses</b> 2542: Advanced Data Access Development with Visual Studio 2005 (2 Days) 2544: Advanced Web Application Development with Visual Studio 2005 (2 Days) 2549: Advanced Distributed Application Development with Microsoft Visual Studio 2005 (2 Days)</p>	→	<p><b>Microsoft Certified Professional Developer</b></p> <p><b>Enterprise Application Developer</b></p>
<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>Application Developer</b></p> <p><b>Exam</b> 70-552:UPGRADE: MCAD Skills to MCPD Windows Developer by Using the Microsoft .NET Framework 2542: Advanced Data Access Development with Visual Studio 2005 (2 Days)</p>	→	<p><b>Microsoft Certified Professional Developer</b></p> <p><b>Windows Developer</b></p>
<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>Application Developer</b></p> <p><b>Exam</b> 70-551:UPGRADE: MCAD Skills to MCPD Web Developer by Using the Microsoft .NET Framework 2542: Advanced Data Access Development with Visual Studio 2005 (2 Days) 2544: Advanced Web Application Development with Visual Studio 2005 (2 Days)</p>	→	<p><b>Microsoft Certified Professional Developer</b></p> <p><b>Web Developer</b></p>

#### MCAD to Microsoft Certified Professional Developer (MCPD) : Enterprise Application Developer

<p><b>Microsoft Certified Application Developer</b></p> <p><b>Exam</b> 70-552:UPGRADE: MCAD Skills to MCPD Windows Developer by Using the Microsoft .NET Framework</p>	→ 1 Exam →	<p><b>Microsoft Certified Professional Developer</b></p> <p><b>Windows Developer</b></p>
<p><b>Microsoft Certified Application Developer</b></p> <p><b>Exam</b> 70-551:UPGRADE: MCAD Skills to MCPD Web Developer by Using the Microsoft .NET Framework</p>	→ 1 Exam →	<p><b>Microsoft Certified Professional Developer</b></p> <p><b>Web Developer</b></p>
<p><b>Microsoft Certified Technology Specialist</b></p> <p><b>NET Framework 2.0 Distributed Applications</b></p> <p><b>Exam</b> 70-529: Microsoft .NET Framework 2.0 – Distributed Application Development</p>	→ 2 Exams →	<p><b>Microsoft Certified Professional Developer</b></p> <p><b>Enterprise Application Developer</b></p> <p><b>Exam</b> 70-549: Designing and Developing Enterprise Applications by Using the Microsoft .NET Framework</p> <p><b>Courses</b> 2541: Core Data Access with Microsoft Visual Studio 2005 (3 Days) 2542: Advanced Data Access Development with Microsoft Visual Studio 2005 (2 Days) 2548: Core Distributed Application Development with Microsoft Visual Studio 2005 (2 Days) 2549: Advanced Distributed Application Development with Microsoft Visual Studio 2005 (2 Days)</p>

\* Subject to change and confirmation

## GET A Second Shot AT CERTIFICATION

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