

## -Dokumentation



**Zentrum für Informatik ZFI AG**

**Designing Microsoft SQL Server 2005**

**Server-Side Solutions (S9SS) - IT Ausbildung  
nach Mass**

<http://www.zfi.ch/S9SS>

Weitere Infos finden Sie unter [www.zfi.ch](http://www.zfi.ch) oder via Adresse:

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<b>Titel</b>	<b>Designing Microsoft SQL Server 2005 Server-Side Solutions</b>
<b>Untertitel</b>	
<b>Einleitung</b>	Dieser ZFI/Microsoft-Kurs vermittelt die Kenntnisse und Fähigkeiten, die erforderlich sind, um SQL Server Services auszuwählen, die den Geschäftsanforderungen eines Unternehmens genügen, eine Security-Strategie für eine SQL Server 2005-Lösung entwerfen zu können, das Design einer Datenmodellierungs- und Transaktionsstrategie, einer Notification Services- und einer Service Broker-Lösung vornehmen zu können. Weitere Themen sind die Planung von Source Control und Testmethoden und die Evaluierung von Query- und XML-Techniken.
<b>Ihr Nutzen</b>	After attending this course, students will be able to:Select SQL Server services to support an organization's business needs.Design a security strategy for a SQL Server 2005 solution.Design a data modeling strategy.Design a transaction strategy for a SQL Server solution.Design a Notification Services solution.Design a Service Broker solution.Plan for source control, unit testing, and deployment to meet an organization's needs.Evaluate advanced query techniques.Evaluate advanced XML techniques.
<b>Voraussetzungen</b>	Before attending this course, students must:Have experience reading user requirements and business-need documents. For example, development project vision/mission statements or business analysis reports.Understand Transact-SQL syntax and programming logic.Understand XML. Specifically, they must be familiar with the syntax of XML, what elements and attributes are, and how to distinguish them.Understand security requirements. Specifically, must understand how unauthorized users can gain access to sensitive information and be able to plan strategies to prevent access.Be able to design a database to 3NF and know the tradeoffs when backing out of the fully normalized design (denormalization) and designing for performance and business requirements in addition to being familiar with design models, such as Star and Snowflake schemas.Have basic monitoring and troubleshooting skills.Have basic knowledge of the operating system and platform. That is, how the operating system integrates with the database, what the platform or operating system can do, and how interaction between the operating system and the database works.Have basic knowledge of application architecture. That is, how applications can be designed in three layers, what applications can do, how interaction between the application and the database works, and how the interaction between the database and the platform or operating system works.Have some experience with a reporting tool.Be familiar with SQL Server 2005 features, tools, and technologies.Have a Microsoft Certified Technology Specialist: Microsoft SQL Server 2005 credential, or equivalent experience.In addition, it is recommended, but not required, that students have completed:Course SST9/2778: Writing Queries Using Microsoft SQL Server 2005 Transact-SQL.Course S9IM/2779: Implementing a Microsoft SQL Server 2005 Database.Course S9MA/2780: Maintaining a Microsoft SQL Server 2005 Database.
<b>Teilnehmerkreis</b>	This course is intended for current professional database developers who have three or more years of on-the-job experience developing SQL

Unterlagen  
Folgekurse  
Inhalt

**Server database solutions in an enterprise environment.**

**Original Microsoft Kursunterlagen**

- **Selecting SQL Server Services to Support Business Needs**
- **Overview of the Built-in SQL Server Services**
- **Evaluating When to Use the New SQL Server Services**
- **Evaluating the Use of Database Engine Enhancements**
- **Lab: Selecting SQL Server Services to Support Business Needs**
  
- **Designing a Security Strategy**
- **Overview of Authentication Modes and Authorization Strategies**
- **Designing a Security Strategy for Components of a SQL Server 2005 Solution**
- **Designing Objects to Manage Application Access**
- **Creating an Auditing Strategy**
- **Managing Multiple Development Teams Using the SQL Server 2005 Security Features**
- **Lab: Designing a Security Strategy**
  
- **Designing a Data Modeling Strategy**
- **Defining Standards for Storing XML Data in a Solution**
- **Designing a Database Solution Schema**
- **Designing a Scale-Out Strategy**
- **Lab: Designing a Data Modeling Strategy**
  
- **Designing a Transaction Strategy for a SQL Server 2005 Solution**
- **Defining Data Behavior Requirements**
- **Defining Isolation Levels**
- **Designing a Resilient Transaction Strategy**
- **Lab: Designing a Transaction Strategy for a SQL Server 2005 Solution**
  
- **Designing a Notification Services Solution**
- **Defining Event Data**
- **Designing a Subscription Strategy**
- **Designing a Notification Strategy**
- **Designing a Notification Delivery Strategy**
- **Lab: Designing a Notification Services Solution**
  
- **Designing a Service Broker Solution**
- **Designing a Service Broker Solution Architecture**
- **Designing Service Broker Data Flow**
- **Designing Service Broker Solution Availability**
- **Lab: Designing a Service Broker Solution**
  
- **Planning for Source Control, Unit Testing, and Deployment**

- Designing a Source Control Strategy
  - Designing a Unit Test Plan
  - Creating a Performance Baseline and Benchmarking Strategy
  - Designing a Deployment Strategy
  - Lab: Planning for Source Control, Unit Testing, and Deployment
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- Evaluating Advanced Query and XML Techniques
  - Evaluating Common Table Expressions
  - Evaluating Pivot Queries
  - Evaluating Ranking Queries
  - Overview of XQuery
  - Overview of Strategies for Converting Data Between XML and Relational Formats
  - Lab: Evaluating Advanced Query Techniques

**Beitrag**

Der Teilnehmerbeitrag versteht sich rein netto. Das ZFI ist (gemäss MwSt-Gesetz) nicht Mehrwertsteuerpflichtig und erhebt somit keine MwSt. Bei länger als einen Monat dauernden Lehrgängen ist die Zahlung des Teilnehmerbeitrages in mehreren Raten möglich (pro rata temporis).