

## 《Microsoft Silverlight 高级培训》

### ■ 培训特点

- **培训方法独特** 祝成科技软件开发培训组有一组独特的教学方法即深入的原理剖析+实际的企业应用案例，剖析软件平台架构、分析软件开发技术。根据以前授课经验，这种教学方法得到了企业开发人员的热烈响应。
- **内容编排科学、实用** 课程是讲师多年企业应用开发、设计理论与实践经验的总结与提炼、并针对企业客户的特殊要求进行专门设计，非常适合有经验的企业学员。
- **分析透彻、深入** 该课程不是泛泛介绍与堆砌各种开发与设计技术，而是建立在讲师对企业级软件开发技术所具有的特点、分析与设计的深刻理解之基础上。根据以前的授课经验，学员普遍反映效果非常好。
- **注重案例，注重架构** 学习企业级软件开发技术的关键在“应用”，本培训通过丰富的案例教学，剖析常见的企业开发应用模式，帮助学员更好地掌握进行企业级应用程序开发时所涉及到的设计方法、模式与架构。
- **专家名师讲授** 祝成科技软件开发培训中心拥有一支高素质的软件开发培训专家队伍，尤其在.NET、C++、Java 等领域，祝成科技有着全国第一流的师资，在中国软件开发培训界享有极高的盛誉，并经常被微软 Tech • ED、Intel 公司、中国软件开发大会邀请进行技术演讲。中心保证派出去的全部是全国知名的讲师。赢得了包括 Microsoft、HP、SAP、西门子、柯达、Bosch、Symantec、eBay、Computer Associates、3M、佳能、ABB、宝钢等世界 500 强公司在内的众多著名企业客户的赞誉。

### ■ 培训大纲

#### Module 1: Introduction to Silverlight

- An Overview of Silverlight
- A Bit of History
  - Microsoft technologies leading up to Silverlight
- Introducing Silverlight
  - Silverlight Architecture
  - Silverlight Versions
  - Silverlight Hosting
  - Supported Platforms
  - Supported Browsers
  - Future Platforms
- Overview of .NET Framework 3.5

- Windows Presentation Foundation (WPF)
- Windows Communication Foundation (WCF)
- Windows Workflow Foundation (WF)
- Windows CardSpace
- Language Integrated Query (LINQ)
- Silverlight vs. WPF
- Installing Silverlight
- Silverlight Tools
- Silverlight Languages
- Windows Live Services
- Silverlight ASP.NET Controls
- Expression Blend
- Accessing the HTML DOM from Silverlight
- Accessing Silverlight from JavaScript
- Embedding Fonts
- Creating a Silverlight Animation
- LAB: Create a Simple Silverlight Application

## **Module 2: XAML, JavaScript, and HTML**

- XAML and JavaScript interaction
- Anatomy of a Silverlight application
- Adding Silverlight to a web page
- Understanding vector graphics in XAML
- Using vector graphics in XAML
- Working with paths in XAML
- Clipping in XAML
- Understanding transforms in XAML
- Using transforms in XAML
- Understanding JavaScript events in XAML
- Using JavaScript events in XAML
- Walking through a Silverlight application

## **Module 3: Advanced XAML**

- Understanding text in XAML
- Working with text in XAML
- Understanding brushes
- Using brushes
- Understanding animations in XAML
- Using animations in XAML
- Understanding XAML timers for animation
- Creating a XAML timer

## Module 4: Advanced JavaScript Techniques for Silverlight

- Understanding Create from XAML
- Using Create from XAML
- Downloading in JavaScript
- Using a downloader
- Packaging in Silverlight
- Using custom fonts in Silverlight
- Understanding mouse input
- Using mouse input
- Creating a button

## Module 5: Silverlight Controls

- Overview
- Layout Controls
  - Canvas Control
  - StackPanel Control
  - Grid Control
- User Interface Controls
  - Border Control
  - Button Control
  - Calendar Control
  - Checkbox Control
  - DatePicker Control
  - HyperlinkButton Control
  - Image Control
  - RadioButton Control
  - RepeatButton Control
  - ScrollViewer Control
  - Slider Control
  - TextBlock Control
  - Textbox Control
  - ToggleButton Control
- User Controls
- Custom Controls
- Designing User Interfaces
  - Skinning Controls and Templates
  - Visual State Manager (VSM)
- LAB: Create a Silverlight Data Entry Form

## Module 6: Networking In Silverlight

- Overview
- Sockets Programming
- Service Oriented Architecture
  - Serialization
  - Web Services
  - JavaScript Object Notation (JSON)
- Other Networking Protocols
  - Plain Old XML (POX)
  - JavaScript Object Notation (JSON)
  - Representational State Transfer (REST)
- Syndication Protocols
  - Really Simple Syndication (RSS)
  - ATOM
- Windows Azure and Live Services
- LAB: Networking In Silverlight

## Module 7: Accessing Data Using Silverlight

- Storing Data in Code
  - Variables
  - Collections
- Working with XML
- Language Integrated Query (LINQ)
- Isolated Storage
- Data Binding
- LAB: Accessing Data In Silverlight

## Module 8: Animating Silverlight

- The Importance of an Impressive User Interface
- Drawing Graphics
  - Graphic Elements
- Animation
- Deep Zoom
  - MultiscaleImage Control
- LAB: Animating Silverlight

## Module 9: Streaming Media Using Silverlight

- Integrating Multimedia
- Microsoft Expression Encoder
  - Encoding Media Using Expression Encoder
- Lab: Streaming Media Using Silverlight

## Module 10: Securing Silverlight Applications

- Software Security Basics
- Transporting Sensitive Data
  - Service Oriented Architecture (SOA) Security
  - Representational State Transfer (REST) Security
  - Silverlight Security
  - Silverlight Enterprise Security Features
- Integrating the SQL Membership Provider for Security
- Cryptography
- Lab: Authenticating and Authorizing Users

## Module 11: Debugging, Testing, and Deploying Silverlight Applications

- Error Handling Overview
  - Global Error Handler
- Debugging and Testing
  - Windows Live Silverlight Streaming Service
- Deploying
  - Windows Live Silverlight Streaming Service
  - Uploading Applications to the Silverlight Streaming Service
  - Web Server Deployment
- Lab: Deploying a Silverlight Application