Software Academy Curriculum

Fundamentals of C# Programming

The course "Fundamentals of C# Programming" covers the fundamental concepts of computer programming, loops, arrays, methods, recursion, data structures, algorithms, logical thinking, problems solving and object-oriented programming. The course is split into two parts, each followed by an exam. The first part takes a month and focuses on the basic programming constructs such as loops and arrays. The second part takes 2 months and covers more complicated topics like recursion, advanced data structures, algorithms and object-oriented programming (OOP). The training consists of 25% theory, 25% practice in class and 50% practice at home. The course content follows the free open-source book "Introduction to Programming with C#", so it is really useful to have a copy of it at your bookshelf. Take a look at the "Fundamentals of C# Programming" course section for more information.

.NET Development Essentials

The course " .NET Development Essentials" covers the .NET Framework class libraries, XML, relational databases and SQL, LINQ, ORM technologies, LINQ-to-Entities and SQL Server, Web services and WCF, desktop applications development with Windows Presentation Foundation (WPF), Web technologies and Web development with ASP.NET and AJAX, RIA applications development with Silverlight, design patterns, software engineering, SCRUM, source control systems, unit testing and build systems. The course takes 4 months at full time and is split into 25% theory and 75% practice in class. After graduation the best students start their career in Telerik and the others continue with practical projects development in several different specializations.

Quality Assurance and Test Automation Course

The "Quality Assurance and Test Automation" course gives the basics of the profession of a software quality assurance (QA) engineer. The course covers the fundamental principles for quality assurance, planning, execution and automation of software testing (functional testing, performance testing, usability testing, etc.) and defect tracking. The course includes in-depth practical training with various tools for automation of testing process. The course lasts for 2 months and will be held in the evenings. The training structure consists of 25% lectures and 75% practice. After successful graduation the best students start work in Telerik.

Advanced ASP.NET & AJAX Web Development
The practical specialization course "Advanced ASP.NET & AJAX Web Development" focuses on building dynamic data-driven Web applications with ASP.NET, AJAX and JavaScript, using .NET Framework, ASP.NET Web Forms, ASP.NET MVC, SQL Server, Telerik RadControls for ASP.NET AJAX, Telerik OpenAccess ORM and Telerik Reporting.

Advanced RIA Development with Silverlight

The practical specialization course "Advanced RIA Development with Silverlight" provides solid skills for building interactive Rich Internet Applications (RIA) using .NET Framework, Silverlight, XAML, SQL Server, WCF RIA Services, Telerik RadControls for Silverlight, Telerik OpenAccess ORM and Telerik Reporting.

Advanced WPF Applications Development

The practical specialization course "Advanced WPF Applications Development" provides solid skills for building rich media Windows GUI applications with Windows Presentation Foundation (WPF) using .NET Framework, WPF, XAML, SQL Server, Telerik RadControls for WPF, Telerik OpenAccess ORM and Telerik Reporting.

Data-Centric Development for .NET Framework

The course "Data-Centric Development for .NET Framework" gives the fundamental technical skills required for building data-centric applications with .NET Framework using ADO.NET, ORM tools like LINQ to SQL and ADO.NET Entity Framework, and Telerik Open Access ORM, SQL Server Reporting Services and Telerik Reporting, ADO.NET Data Services, WCF RIA Services, Windows Communication Foundation (WCF) and Windows Workflow Foundation (WWF).

Advanced Visual Studio Development