

SALES FORCE ADVANCED DEVELOPMENT

<p>Development Lifecycle</p> <ul style="list-style-type: none"> • List and describe the key features, tools, and technologies of application lifecycle management and Force.com development • Learn the best practices for managing multi-team and multi-project development initiatives with Force.com and describe how to use these best practices • List and describe the various development and test environments available on the Force.com platform • Learn how to manage sandbox environments • Given a scenario, determine whether to use package or metadata deployment • Learn how to use the Force.com migration tool • Learn the capabilities and constraints of metadata text files for manipulating application metadata • Learn the requirements and processes for deploying changes to an application using a metadata tool
<p>Apex</p> <ul style="list-style-type: none"> • List and describe the features of Apex and distinguish between it and other programming languages • Learn when and why to use Apex • List and describe syntax features of Apex • Learn the ways Apex can be invoked • Learn use cases for Apex in an integration scenario • Learn how to send and receive email via Apex • Learn use cases for dynamic Apex • Learn use cases for batch Apex • Learn the save execution order and use of before and after triggers • Learn the types of governor limits and contexts and the rationale behind them • Learn how to write scalable code that handles bulk operations
<p>Visualforce</p> <ul style="list-style-type: none"> • Learn the benefits, functions, and features of Visualforce pages and how it conforms to the model-view-controller pattern • Learn how to incorporate Visualforce pages into Force.com applications • Learn how to create data, action, and component binding expressions • List and describe syntax features of Visualforce pages • Learn best practices for incorporating static resources, style sheets, and other content into Force.com pages • Learn how to create and use a Force.com page as the template for multiple pages • Learn how to handle client-side behavior through the use of either standard components or custom JavaScript • Learn and incorporate proper error-handling techniques • Learn how to create a custom component and the benefits of custom components versus other techniques for code reuse • Learn how to leverage PDF generation • Distinguish between standard controllers, custom controllers, and extensions • Learn the request lifecycle of a Force.com page • Learn viewstate and the stateful programming model of Visualforce pages • Learn the benefits of using Apex classes as structs or wrappers of sObjects
<p>Testing and Debugging</p> <ul style="list-style-type: none"> • Learn the techniques and tools available to debug, test, and monitor Apex execution • List and describe the contents and use of the System Log • Learn how to create and run unit tests as well as techniques for achieving 100% test coverage • Learn how to test Force.com page controllers • Learn how to test email send and receive in different environments