

# ACTIVE LEARNING



## Struts Web Application Framework

Course: 341    Type: Hands-On Training    Duration: 4 days



### Course benefits:

Struts is the popular open-source framework used for building web applications based on J2EE technologies. This Struts training course provides the skills for you to design and build Web applications using the Struts framework. You learn to streamline the development process by integrating, applying and extending Struts components. Extensive hands-on exercises were designed to make sure you put the theories you learn into practice.

```
341-Solution - NetBeans IDE 6.0
File Edit View Navigate Source Refactor Build Run Profile Versioning Tools Window Help
LoginAction.java x
25 public class LoginAction extends org.apache.struts.action.Action {
26
27     private final static String SUCCESS = "success";
28     private final static String FAILURE = "failure";
29
30     /**
31      * This is the action called from the Struts framework.
32      * @param mapping The ActionMapping used to select this instance.
33      * @param form The optional ActionForm bean for this request.
34      * @param request The HTTP Request we are processing.
35      * @param response The HTTP Response we are processing.
36      * @throws java.lang.Exception
37      * @return
38      */
39     public ActionForward execute(ActionMapping mapping, ActionForm form,
40                               HttpServletRequest request, HttpServletResponse response)
41                               throws Exception {
42
```

### You will learn how to:

- Develop scalable, enterprise Java Web applications using the Struts framework
- Build Action Classes to handle application requests
- Leverage Struts custom tags and the JSP Standard Tag Library (JSTL)
- Perform client- and server-side data validation using the Struts Validator Framework
- Integrate the Struts Tile Framework to develop reusable JSP layouts

### Who should attend:

This course is valuable for those interested in developing Java Web applications with Struts. Knowledge of Java at the level of Course 323 - Java Servlets, JSP, and Struts, plus real-world Java programming experience, is assumed.

### Your course tuition entitles you to...

- Class participation
- Team workshops
- Use of in-class and hands-on equipment
- Comprehensive course materials
- Morning and afternoon refreshments
- Course Completion Certificate
- Course CD

### Testimonials

*"I can use all the contents on future and present projects. Struts was discussed in the simplest way to make us understand easily. Exercises were really targeted for us to understand the topic discussed."*

**Victorie Maia Donsen**  
Epson Software Philippines, Cebu

*"It's good that the instructor has the background experience to back up the items being taught. The content was presented in a simplified way where you can really grasp concepts. Activities reflect what was taught so learnings can be applied."*

**Annie Marie Puga**  
Epson Software Philippines, Cebu

*"The presentation order of each topic and its relation to the exercises are very good. Generally, the course delivered what we are expecting."*

**Jungie Lobitaña**  
Epson Software Philippines, Cebu

**ENROLL NOW**

### ACTIVE LEARNING

Unit 810 Medical Plaza Ortigas Building  
San Miguel Avenue, Ortigas Center,  
Pasig City, Philippines

Telephone : +632.910.1160

[www.activelearning.ph](http://www.activelearning.ph)

Email: [info@activelearning.ph](mailto:info@activelearning.ph)

Copyright 2004 – 2009

ActiveLearning, Inc.

# ACTIVE LEARNING



## Struts Web Application Framework

Course: 341    Type: Hands-On Training    Duration: 4 days

### Course Contents:

#### Getting Started with Struts

- The Struts web application framework
- The MVC design pattern
- Installing and testing Struts
- Creating a development environment

#### Struts Framework Components

- Exploring the case study
- ActionServlet
- Action
- ActionForm
- ActionMapping
- ActionForward
- struts-config.xml

#### JSP Expression Language

- Basic syntax
- Referencing scoped variables
- Accessing bean properties
- Accessing array elements and List elements
- Accessing map entries
- Using EL operators

#### JSTL and Struts Tag Libraries

- Using tag libraries
- Repetition control
- Decision control
- Printing out HTML encoded values
- Setting and removing a scoped variable
- Importing content from a URL
- URL related tags
- Formatting tags
- Using Struts tag libraries to build web forms

#### Form Beans

- Rules for creating form beans
- Declaring form beans in struts-config.xml
- Accessing form beans in the Action class
- Multi-page forms
- DynaActionForms
- Declaring dynamic forms
- Accessing DynaActionForm properties
- Displaying DynaActionForm properties

#### Form Validation

- Form validation options
- Validation in the ActionForm
- Displaying error messages
- Using resource bundles
- Repopulating forms
- Declarative validation
- Client-side Javascript validation
- Performing business logic validation

#### Exception Handling

- Declarative exception handling
- Handling runtime exceptions
- Extending the Struts exception handler

#### Internationalization

- Overview
- The resource bundle
- Using the resource bundle
- Setting up different resource bundles

#### Advanced Struts Features

- Plug-ins
- Extending the RequestProcessor
- ForwardAction
- DispatchAction
- Connection Pools

#### The Tiles Framework

- Layout vs. Content
- Approaches in laying out content
- Tiles components
- Layout templates
- Parameter pages
- Content pages
- Tile definitions
- Enabling Tiles for Struts

#### Related Courses:

[Java Programming](#)  
[Developing Java Web Applications](#)

**ENROLL NOW**

#### ACTIVE LEARNING

Unit 810 Medical Plaza Ortigas Building  
San Miguel Avenue, Ortigas Center,  
Pasig City, Philippines

Telephone : +632.910.1160

[www.activelearning.ph](http://www.activelearning.ph)

Email: [info@activelearning.ph](mailto:info@activelearning.ph)

Copyright 2004 – 2009  
ActiveLearning, Inc.