

**OTP (Open Telecom Platform) for Erlang Programmers**

**Course Number:** ERL-102
**Duration:** 3 days

**Overview**

This OTP for Erlang Programmers training course teaches attendees how to use the Open Telecom Platform, a core set of middleware, libraries, and tools used to design and architect Erlang systems.

**Prerequisites**

All students should be intermediate developers in Erlang, preferably with at least three months of practical experience. Attendees would ideally already know about Erlang Term Storage, concurrent Erlang, error handling, and maps and records.

**Materials**

All Erlang training students receive comprehensive courseware.

**Software Needed on Each Student PC**

A complete, remote virtual environment is provided for training and is accessible via the Internet from any modern web browser.

**Objectives**

* The design principles of OTP
* OTP behaviors
* OTP system configuration
* Available OTP applications

**Outline**

* Introduction
	+ Erlang
	+ OTP Components
	+ System Design Principles
	+ Applications and Libraries
* Behaviors
	+ Design Principles
	+ Behaviors
	+ A Server Example
* Generic Servers
	+ Generic Servers
	+ Starting a Server
	+ Message Passing
	+ Termination
	+ Other Messages
	+ Timeouts
	+ Other Issues
* State Machines
	+ Finite-State Machines
	+ Generic State machines
	+ State function mode
	+ Event function mode
	+ Other messages
	+ Termination
	+ State enter calls
	+ Postponing events
	+ Time-outs
* Supervisors
	+ Supervisors
	+ Supervisor Example
	+ Generic Supervisors
	+ Dynamic Children
	+ Non OTP-compliant Processes
* Event Handlers
	+ Events
	+ Event Handlers
	+ Adding Handlers
	+ Sending Events
	+ Swapping Handlers
	+ Deleting Handlers
	+ Event Handler Example
* Applications
	+ Applications
	+ Starting Applications
	+ Stopping Applications
	+ Application Files
	+ Distributed Applications
	+ Observer Applications
* System Architecture Support Libraries
	+ SASL Application
	+ Error Logging
	+ Report Browser
	+ Alarm Handler
* System Principles
	+ Releases
	+ Release Directory Structure
	+ Release Resource Files
	+ Creating a Release
	+ Starting a Release
	+ Erlang Directives
* Conclusion