

## SE110PHP – Laravel 10.0

Duration: 5 Days; Instructor-led

### DESCRIPTION

In this comprehensive Laravel training program, participants will have the opportunity to master the development of outstanding web applications using one of the most widely used open-source PHP frameworks.

Laravel's clean and sophisticated syntax, combined with its powerful toolkit, make it an ideal choice for modern web developers. The framework boasts a number of notable features, including a well-designed routing system, a versatile queue library, a sophisticated Eloquent ORM, a user-friendly Tinker tool, simple authentication, and a thriving developer community.

### WHAT YOU WILL LEARN

- How to develop web applications using Laravel, one of the most popular open-source PHP frameworks.
- The fundamentals of Laravel's clean and elegant syntax and its powerful toolkit.
- The key features of Laravel, include its routing system, queue library, Eloquent ORM, Tinker tool, simple authentication, and it's thriving developer community.
- How to create a fully functional MVC-based CRUD web application using Laravel.
- Hands-on practical experience with Laravel, providing a strong foundation for continued learning and development.

### AUDIENCE

This course is for PHP developers who already know how to make website and applications and want to learn how to do so well in Laravel 10.

### PREREQUISITES

This course requires participants to meet the following prerequisites:

- Basic skill and knowledge about PHP language
- Web standards, including HTTP protocol, HTML5 and related standards (CSS, JavaScript, etc)

### METHODOLOGY

This program will be conducted through Instructor-led (classroom)

### COURSE OBJECTIVES

Upon completion of this course, candidates may pursue the following career paths:

- Laravel Developer
- Full-Stack Web Developer
- PHP Developer
- Backend Developer
- LAMP Developer
- Freelance Web Developer
- Software Developer (PHP & Laravel)

## COURSE OUTLINE

### Module 1 - PHP Language Basics

- Welcome
- What you need to know?
- PHP Language Basics
- Syntax & Quotes
- Data Types
- Variables & Constants
- Arrays
- Conditionals & Loops

### Module 2 - Object Oriented Programming

- Introduction
- Classes & Objects
- Static Context
- Visibility (PPP)
- Overriding Functions
- Interfaces
- Cloning
- Namespaces

### Module 3 – Introduction to Laravel

- Introduction to Laravel
- Installation & Setup
- Installing and Creating with Laravel
- Using Laravel's Server
- Intro to the Eloquent ORM
- Tinker & Application Interaction

### Module 4 - MVC & Laravel

- What is an MVC Framework?
- Laravel Collections
- Laravel Farm Class
- Intro to CRUD
- Create
- Read
- Update
- Delete or Destroy

### Module 5 - Models & Views

- What is a Model for?
- Creating a Model
- Local Scopes
- Introduction to View
- View Location
- Blade
- Looping with Blade
- Layouts

### Module 6 - Controllers & Routing

- Controllers: The Middleman
- What is a Controller?
- Creating Controllers
- Show Methods
- Routing: Directing Traffic
- Route Location
- Closures with Arguments
- Resource Controller
- Listing Routes

**Module 7 - Model & Database Migration**

- Using Laravel's Server
- Generating Models
- Building Migrations
- Factory and Faker

**Module 8 - Database & Tinker**

- Database Setup
- MySQL Monitor
- Database Configuration
- Running Migrations
- Using Artisan Tinker
- Mass Assignment

**Module 9 - Controllers & Index**

- Routing Through a Controller to a View
- Creating a Controller
- RESTful Routing
- Building the Index Method

**Module 10 - Forms, Validation & Pagination**

- Forms, Layouts, and CSRF
- Layouts
- Creation Forms
- Input Validation and Pagination
- Pagination
- Basic Auth with Artisan
- Relationship and Custom Auth