

Django

Intended Audience

This Django Training Course is for Python programmers who want to learn the best and most-widely used framework for developing Python-based Web applications.

Prerequisites / Further Training

Recommended sequence	Summary
Introduction to Programming.	Fundamentals of Computer Programming
Beginner Python	Python Language and OO Fundamentals
Advanced Python (Full-Stack)	Building Various Apps with Python
<i>Django</i> or Flask	<i>Python Web development in detail</i>

Also have a look at our [Python Bootcamp](#)

After this course you should be able to

Quickly start a new Django project and establish a strong foundation for a growing site

- Define how your data is organized and create a SQLite database to manage it
- Quickly produce HTML with Django templates
- Create dynamic webpages with Django's URL patterns and views, including function views, class-based views, and generic views
- Enable efficient, reliable data input with Django Forms and custom form validations
- Understand the Model-View-Controller (MVC) architecture, compare it to Model-Template-Views, and gain a holistic understanding of Django's structure

- Write as little code as possible, simplify code reuse, and mitigate software decay by adhering to the Don't Repeat Yourself paradigm.
- Dive into Django source code to troubleshoot problems
- Extend site functionality with Django's contributed library
- Protect your site with user authentication and permissions
- Avoid security pitfalls such as SQL Injection, XSS, and CSRF
- Optimize site performance
- Develop complete Python-based Web applications from start to finish in Django.

Course Material

Supplied

Course Contents

Day 1

- Starting a New Django Project
- Building a Basic WebPage in Django
- Programming Django Models and Creating a SQLite Database
- Rapidly Producing HTML with Django Templates
- Webpages with Controllers, Views and URL Configurations
- Use Models, Templates, Views and URL Configurations to Create Links between Web Pages

Day 2

- User Input with Forms
- Displaying Forms in Templates
- Controlling forms in Views
- Migrations
- The Contact Us Webpage
- The Big Picture : Django's Core

Day 3

- Django's Contributed Libraries
- Pagination for Navigation
- Django Flatpages
- Static Content with Django
- Generic class-based views
- Advanced Generic class-based view usage

Day 4

- Basic Authentication
- Integrating Permissions
- Authentication extension
- Customised Authentication
- Admin Library
- Custom Managers and Querysets

Day 5

- Handling Behavior with Signals
- Performance Improvement of the website
- Building Custom Template Tags
- Adding RSS and Atom Feeds and a sitemap
- Deploy
- Starting a new Project Correctly

Duration and pricing

- Full-time over 5 days (R9995 excl VAT)
- Part-time over 4 weeks (2 nights per week, 3 hour sessions) (R10995 excl Vat)
- Part-time over 8 Saturdays, 3 hour sessions (R10995 excl Vat)
- [Distance-learning](#) over up to 3 months (R7995 excl Vat)

Certificate

1. Upon completion of this course we will issue you with attendance certificate to certify your attendance and / or completion of the prescribed minimum examples.
2. You have the option to get the competency / academic

certificate if you :
hand in a project (pre-approved) covering most of the topics
in the book.

Schedule

On the calendar on this page below.
If your browser doesn't display the calendar below, please
click on [this link](#) or try using [Google Chrome](#), alternatively
please enquire via our 'Contact Us' page.

Bookings

You can download the course registration form on our home
page or by clicking [here](#)

Brochure

You may download a pdf copy of this page by [clicking here](#).

Questions

Please [email us](#)

We are a member of the Python Software Foundation

