



**Unnati Development &  
Training Centre Pvt. Ltd**

# INTERNSHIP

# @ UNNATI

## Development and Training Center Pvt. Ltd.

### About us

**Unnati Development and Training Centre Pvt Ltd. (UDTCP)**

*UDTCP* is a computer training organization specialized in hands-on learning for Linux training and Red Hat certifications in Aurangabad (MS). Growing for more than 16 years. Currently having four branches in India as Bhopal, Nashik, Main Branch Aurangabad, Sub Branch Aurangabad Shahanoorwadi. Unnati is having authorisation as **Red Hat Certified Training Partner, CompTIA Authorised Partner, Star Certification Partner, The Linux Foundation Authorised Training Partner** in terms of Global Level OpenSource Learning and Development.

# Schedule

## **ESSENTIAL TRAINING SCHEDULE - 10Days**

**Day 1 to Day 10 : 7 hrs daily**

## **Internship Work SCHEDULE - 5 Days**

Day 11 to Day 15

## **PROJECT EVALUATION AND CERTIFICATE DISTRIBUTION**

**Day 15**

# Internship sessions

Our Internship programs are meticulously planned by our trainer and are designed in a manner geared toward the maximization of efficiency. Candidates time is valuable, so our goal is to best prepare them while taking up the least amount of your time possible in HandsOn way.

Internship will be conducted by our Corporate trainers over 10 of total sessions that will last from 6 to 8 total Hours on each Day. Followed by 5 days mini project work to collaborate their knowledge with what they got in 10 training sessions. Internship sessions will be comprised of 2 activities Training and Internship Mini Project that will touch upon different **Open Source Technologies in stream of following subjects:**

- Basic Linux Administration Automation using Python
- Python Scripts for Apache Server Configurations
- PHP/Jscript Application on Embedded Linux or Raspbian
- Linux User Management Skills for An Company/Institute's Centralised Server
- OpenSource tools Integration and use for Educational Institutes
- Software and Web Design on Linux Platform
- HardDisk and other Storage Management on Linux Servers

# Project Work and Essential Training

This Internship Contract states the terms and conditions that govern the contractual agreement between Unnati having its principal place of business at Aurangabad and across India too, and your esteem Institute who agrees to be bound by this Program.

WHEREAS, the Trainers holds significant expertise in Linux Administrations, Development, Security and Troubleshooting, and offers training services in different OpenSource technologies for which the Client would like to engage the Trainer according to the terms and conditions herein.

NOW, THEREFORE, In consideration of the mutual covenants and promises made by the parties within this Program, the Unnati and the Institutes covenant and agree as follows:

## 1. TRAINING

Professional Trainers will train the Interns for basic Linux system administration skills on Red Hat Enterprise Servers. **Official RHCSA Course with e-contents, will be provided to each intern student.** Training duration needed is 40 Hrs i.e. 10 days. This training is mandatory for further internship work and mini project. Which will be handson experience. **BYOD(Bring Your Own Device) implementation will be there.**

## **2. Project Work**

Basic training will be followed by a mini project of individual intern. Unnati Team will assign a industry grade scenario to be implemented as project on 100% OpenSource based. During those 5 days of project days candidate can work from home with BYOD. On last day of Internship there will be evaluation by industry project experts and minimum 70% scoring will be must to gain the internship completion letter. (Group Projects can also be there where every participant will have isolated and group tasks too.)

## **3. MONEY INVOLVED**

This Internship program is at No Cost for 10 days training program. Complete internship activity and Project background work needs some basic processing charges of Rs.1000 /- per intern. Training Fees and Internship completion charges are not applicable in this Internship Model.

Student can write RHCSA official exam directly after attending this internship program. No need to pay any extra fees for RHCSA training later on.

## **4. TRAINING AND INTERNSHIP CERTIFICATE**

Official Red Hat Linux admin course completion certificate will be provided by Unnati is candidate successfully complete the essential training program . Project Submission on last day and min 70% work done on project will allow intern to grab Internship Completion Certificate.

## 5. APPLICABLE LAW

This Contract and the interpretation of its terms shall be governed by and construed in accordance with the laws of the State of [STATE] and subject to the exclusive jurisdiction of the federal and state courts located in [COUNTY], [STATE].

IN WITNESS WHEREOF, each of the Parties has executed this Contract, both Parties by its duly authorized officer, as of the day and year set forth below.

We can conduct the 10 days training session at Unnati Development and Training Centre Pvt Ltd, and allow remaining 5 days to work from home.

### Internship Certificate : Sample

 **Unnati Development & Training Centre Pvt Ltd.**  
A Step Towards Success

**Certificate of Internship**

**We present this certificate to**

**Mr.Rohit S. Deshpande**

**for his success work as an Intern based on a**

**Python Scripts for Apache Server Configurations**

**with a B+ Grade . Which has been conducted between**

\_\_\_\_\_ and \_\_\_\_\_.

   

Authorized Signatory

Address : "First-Floor", N-7 CIDCO R-28, Plot No.60, Aurangabad 431001.  
Ph.0240-2485677 [www.unnatiithub.org](http://www.unnatiithub.org)

### RHCSA Course Completion Certificate from Red Hat



# CERTIFICATE OF COMPLETION

This Certificate Certifies that

**Ganesh Malkar**

**SAMPLE**

as successfully completed

Red Hat Certified System Administrator (RHCSA)

at

College Name & Place

Ken Goetz, Vice President, Global Training Services, Red Hat

Date 30-May-2018



## TOC for Internship

**Option 1: Linux Administrations**

**Option 2: Python + MySQL**

**Option 3: Devops - Docker**

### **Option 1: Linux Administrations**

- Understand and use essential tools for
  - handling files
  - Directories
  - Command-line environments
  - Documentation
- Operate running systems, including booting into different run levels,
- Identifying processes,
- Starting and Stopping virtual machines, and controlling services
- Configure local storage using partitions
- Configure local storage using logical volumes
- Create and configure file systems and file system attributes, such as permissions, encryption
- Create and configure access control lists, and network file systems
- Deploy, configure, and maintain systems
- Software installation, update, and core services
- Manage users and groups
- Use of a centralized directory for authentication
- Manage security,
  - Basic firewall
  - SELinux configuration

### **Option 2: Python + MySQL**

Part I : Essential Is of Programming with Python



- 1. Python: An Introduction.
- 2. Creating your First program in Python.
- Data Types: Classifying data in Python.
- Operators: Performing logical and mathematical operations.
- Statements: Controlling the Program flow.
- Strings: A Sequence of Characters.
- Arrays: Arranging Similar Objects Systematically.
- Implementing functions in Python.
- Lists and Tuples: Managing data Systematically.
- Dictionaries and other Data Structures (link list, Stacks, Queues).
- Recursion and Algorithms in Python.

Part 2: Object Oriented Programming

Part 3: Implementing Graphics in Python

Part 4: Accessing Data in Python

- Handling Files I/O.
- Connecting to Database in python.
- Handling Errors and Exceptions.
- Interacting with Networks.

Flask:

- Flask – Overview
- Flask – Environment
- Flask – Application
- Flask – Routing
- Flask – Variable Rules
- Flask – URL Building
- Flask – HTTP methods
- Flask – Templates
- Flask – Static Files
- Flask – Request Object

- Flask – Sending Form Data to Template
- Flask – Cookies

### **Option 3: Devops - Docker**

- Introduction To Docker
- Container Vs Virtual Machines
- Docker Architecture
- The Docker Hub
- Docker Installation
- Creating First Image
- Working with Multiple Images
- Packaging a customized container
- Running container commands
- Container Port Redirect
- Container Snapshots
- Attach to a Running Container
- Removing Images
- Understand Directory Structure
- Services - on startup
- Dockerfile
- Pushing Images to Docker Hub
- Adding External Content
- Image Volume Management
- Advance Docker Networking
- DOCKER Compose
- Configuring Compose
- Create a php application with mysql
- DOCKER Swarm
- Building a cluster
- Launch Strategy