

Certified Raspberry Pi Professional VS-1111

Vskills Certifications

Vskills Brochure



Certified Raspberry Pi Professional

Certification Code VS-1111

Vskills certification for Raspberry Pi Professional assesses the candidate as per the company's need for developing low cost computing solutions. The certification tests the candidates on various areas in configuring and deploying Raspberry Pi, programming Raspberry Pi with scratch or Python, administering Linux, partition management and using Raspberry Pi as web server or home theatre.

Why should one take this certification?

This Course is intended for professionals and graduates wanting to excel in their chosen areas. It is also well suited for those who are already working and would like to take certification for further career progression.

Earning Vskills Raspberry Pi Professional Certification can help candidate differentiate in today's competitive job market, broaden their employment opportunities by displaying their advanced skills, and result in higher earning potential.

Who will benefit from taking this certification?

Job seekers looking to find employment in developing low cost computing solution for various companies, students generally wanting to improve their skill set and make their CV stronger and existing employees looking for a better role can prove their employers the value of their skills through this certification.

Test Details

Duration: 60 minutesNo. of questions: 50

• **Maximum marks:** 50, Passing marks: 25 (50%)

There is no negative marking in this module.

Fee Structure

Rs. 3,499/- (Excludes taxes)*

Companies that hire Vskills Raspberry Pi Professional

Raspberry Pi Professionals are in great demand. Companies specializing in computing based solution development are constantly hiring skilled Raspberry Pi Professionals. Various public and private companies also need Raspberry Pi Professional for their need for developing low cost computing solutions.

^{*}Fees may change without prior notice, please refer http://www.vskills.in for updated fees

Table of Contents

1. Raspberry Pi Basics

- 1.1 What is Raspberry Pi and IoT?
- 1.2 Raspberry Pi Evolution
- 1.3 Raspberry Pi 3
- 1.4 Raspberry Pi Hardware
- 1.5 Raspberry Pi Software
- 1.6 ARM vs x86
- 1.7 Window vs Linux
- 1.8 Physical Computing

2. Setting up Raspberry Pi

- 2.1 Unboxing Raspberry Pi
- 2.2 Prerequisite
- 2.3 Assembling Raspberry Pi
- 2.4 Video Connection
- 2.5 Audio Connection
- 2.6 Storage Connection
- 2.7 Network Connection
- 2.8 SD Card Connection
- 2.9 Classroom Setting

3. Operating System

- 3.1 Linux Basics and Debian
- 3.2 Raspian Setup
- 3.3 NOOBS Setup
- 3.4 First time Start
- 3.5 Remote Working
- 3.6 Command Window
- 3.7 Common Commands
- 3.8 Pixel Desktop

4. Configuring the Raspberry Pi

- **4.1 GPIO**
- 4.2 Localisation
- 4.3 Audio Configuration
- 4.4 Camera Configuration
- 4.5 config.txt
- 4.6 raspi-config
- 4.7 Device Trees

5. Network Configuration

- 5.1 Networking Basics
- 5.2 Modules, network interface configuration and routes
- 5.3 Ethernet Interfaces
- 5.4 Configuration Tools

6. Partition Management

- 6.1 Hard Disks
- 6.2 Linux Formatting
- 6.3 Partitions
- 6.4 Filesystems
- 6.5 Mounting and unmounting
- 6.6 fsck

7. Raspberry Pi Management

- 7.1 Package Management
- 7.2 Updating and upgrading SD card
- 7.3 User Management
- 7.4 Backup
- 7.5 SD Card Backup
- 7.6 Access Permissions
- 7.7 Shell Scripts
- 7.8 Scheduling tasks with Cron
- 7.9 Kernel Management

8. <u>Troubleshooting</u>

- 8.1 Keyboard and Mouse Issues
- 8.2 Power Issues
- 8.3 Display Issues
- 8.4 Boot Issues
- 8.5 Network Issues
- 8.6 Sound Issues

9. Programming

- 9.1 Programming Basics
- 9.2 Python Version
- 9.3 Python Basics
- 9.4 Programming Python

10. Raspberry Pi Projects

- 10.1 Traffic Lights
- 10.2 Wireless Printer Server
- 10.3 Home Theater
- 10.4 Raspberry Pi Supercomputer

Sample Questions

1. What does the term HDMI refers to?

- A. High-Definition Multimedia Interaction
- B. High-Definition Multimedia Interface
- C. High-Definition Multimedia Interrupt
- D. None of the above

2. Which company's SoC is used by Raspberry Pi?

- A. AMD
- B. Broadcom
- C. Intel
- D. None of the above

3. Which type of instruction set is used by Raspberry Pi?

- A. PISC
- B. CISC
- C. RISC
- D. None of the above

4. What does the term 'x86' refers to

- A. Instruction Set Architecture
- B. CPU make
- C. PCB make
- D. None of the above

5. Which of the following operating system is open source?

- A. Linux
- B. OS X
- C. Windows
- D. None of the above

Answers: 1 (B), 2 (B), 3 (C), 4 (A), 5 (A)

Certifications

Accounting, Banking and Finance - Certified AML-KYC Compliance Officer

- Certified Business Accountant
 Certified Commercial Banker
 Certified Foreign Exchange Professional
- Certified GAAP Accounting Standards Professional
 Certified Financial Risk Management Professional
- Certified Merger and Acquisition Analyst
- Certified Tally 9.0 Professional
 Certified Treasury Market Professional
 Certified Wealth Manager

Big Data

- Certified Hadoop and Mapreduce Professional

▶ Cloud Computing

- Certified Cloud Computing Professional

DesignCertified Interior Designer

Digital Media

- Certified Social Media Marketing Professional
- Certified Inbound Marketing Professional
 Certified Digital Marketing Master

- Certified Export Import (Foreign Trade) Professional

> Health, Nutrition and Well Being

➤ Hospitality

— Certified Restaurant Team Member (Hospitality)

➤ Human Resources

- Certified HR Compensation Manager Certified HR Stafffing Manager
- Certified Human Resources Manager
- Certified Performance Appraisal Manager

Office Skills

- Certified Data Entry Operator
- Certified Office Administrator

Project Management
 Certified Project Management Professional

Real Estate

- Certified Real Estate Consultant

MarketingCertified Marketing Manager

Quality

- Certified Six Sigma Green Belt Professional
- Certified Six Sigma Black Belt Professional
 Certified TQM Professional

Logistics & Supply Chain Management

- Certified International Logistics Professional Certified Logistics & SCM Professional
- Certified Purchase Manager
- Certified Supply Chain Management Professional

- ➤ Legal

 Certified IPR & Legal Manager
- Certified Labour Law Analyst
 Certified Business Law Analyst
 Certified Corporate Law Analyst

➤ Information Technology

- Certified ASP.NET Programmer
 Certified Basic Network Support Professional
- Certified Business Intelligence Professional
- Certified Core Java Developer
 Certified E-commerce Professional
 Certified IT Support Professional
- Certified PHP Professional
 Certified Selenium Professional
 Certified SEO Professional
- Certified Software Quality Assurance Professional

➤ Mobile Application Development — Certified Android Apps Developer

- Certified iPhone Apps Developer

Security

- Certified Ethical Hacking and Security Professional
 Certified Network Security Professional

Management

- Certified Corporate Goverance Professional
 Certified Corporate Social Responsibility Professional

- Certified Business Communication Specialist
- Certified Public Relations Officer

Media

- Certified Advertising Manager
- Certified Advertising Sales Professional

> Sales, BPO

- Certified Sales Manager
- Certified Telesales Executive

& many more job related certifications

Contact us at:

Vskills

011-473 44 723 or info@vskills.in

www.vskills.com