



Certified Progressive Web Application Development

Vskills Certifications

Vskills Brochure



Certified Progressive Web Application Development (PWAD) Professional

Certified Progressive Web Application Development (PWAD) Professional

Progressive web applications (PWAs) are a type of application software delivered through the web, built using common web technologies including HTML, CSS and JavaScript. They are intended to work on any platform that uses a standards-compliant browser. Functionality includes working offline, push notifications, and device hardware access, enabling creating user experiences similar to native applications on desktop and mobile devices. Since they are a type of webpage or website known as a web application, there is no requirement for developers or users to install the web apps via digital distribution systems like Apple App Store or Google Play.

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 Progressive Web Application Development (PWAD) 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 web development, or IT departments of 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 minutes
- **No. 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) *

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

www.vskills.in

Table of Contents

1. Introduction to PWA

- 1.1 What Really is a PWA?
- 1.2 PWA Core Concepts
- 1.3 What is PRPL Pattern?
- 1.4 Demo of Final Course Project
- 1.5 Responsive UI
- 1.6 Tools Overview and Setup

2. Understanding Web App Manifest

- 2.1 Understanding App Manifest Properties
- 2.2 Add Properties to manifest.json
- 2.3 Prerequisites for Installing Web App
- 2.4 Run Android Emulator and Leverage Chrome Dev Tools for Debugging
- 2.5 Add Properties for Safari
- 2.6 Add Properties for Internet Explorer

3. Service Worker

- 3.1 Promise API
- 3.2 Fetch API
- 3.3 What Is a Service Worker and How it Works?
- 3.4 Events in Service Worker
- 3.5 Service Worker Lifecycle
- 3.6 Scope Working for a Service Worker
- 3.7 Register, Update, Activate SW
- 3.8 Debug Our Service Worker
- 3.9 Install App Banner and Control Over it
- 3.10 Debug and Test on Android Emulated Device

4. Cache and Offline Support

- 4.1 Storage Options
- 4.2 Cache API
- 4.3 Pre-Caching/Static Caching
- 4.4 ES6 Overview
- 4.5 Add, Update Cache
- 4.6 Respond with Cache
- 4.7 Dynamic Caching Upon Fetch
- 4.8 Offline Respond Placeholders
- 4.9 Remove/Cleanup Caches
- 4.10 Caching Strategies

5. Dynamic Content Cache

- 5.1 IndexedDB / Write Data
- 5.2 IndexedDB / Retrieve and Delete
- 5.3 Tools to Help Create Cache and Service Worker

6. Deployment to Firebase

- 6.1 Setup Firebase CLI
- 6.2 Make Our App Ready to Deploy
- 6.3 Deploy to Firebase

7. Background Sync

- 7.1 How Background Sync Helps
- 7.2 Register a Synchronization Task
- 7.3 Storing Our Data in IndexedDB and Firebase
- 7.4 Syncing Data in Server Worker with Server
- 7.5 Periodic Sync

8. Push Notification

- 8.1 Push Notification Fundamentals
- 8.2 Request Permission, Subscription, and Display Notification
- 8.3 Store Client Subscription and Secure It in Backend
- 8.4 Send Notification from Server and Listen from Service Worker
- 8.5 Clean Up Subscriptions

9. PWA with SPA

- 9.1 PWA in an Angular App
- 9.2 PWA in a React App
- 9.3 PWA in a Vue App
- 9.4 PWA in an Ember App

Certifications

- ▶ **Accounting, Banking & Finance**
 - Certified GST Professional
 - Certified AML-KYC Compliance Officer
 - Certified Business Accountant
 - Certified BASEL III Professional
 - Certified GAAP Accounting Standards Professional
 - Certified Treasury Markets Professional
- ▶ **Big Data**
 - Certified Hadoop and Mapreduce Professional
- ▶ **Cloud Computing**
 - Certified Cloud Computing Professional
- ▶ **Design**
 - Certified Interior Designer
- ▶ **Digital Media**
 - Certified Social Media Marketing Professional
 - Certified Inbound Marketing Professional
 - Certified Digital Marketing Professional
- ▶ **Foreign Trade**
 - Certified Export Import (Foreign Trade) Professional
- ▶ **Health, Nutrition and Well Being**
 - Certified Fitness Instructor
- ▶ **Hospitality**
 - Certified Restaurant Team Member (Hospitality)
- ▶ **Human Resources**
 - Certified HR Compensation Manager
 - Certified HR Staffing Manager
 - Certified Human Resources Manager
 - Certified Performance Appraisal Manager
- ▶ **Office Skills**
 - Certified Data Entry Operator
 - Certified Office Administrator
- ▶ **Project Management**
 - Certified Master in Project Management
 - Certified Scrum Specialist
- ▶ **Real Estate**
 - Certified Real Estate Consultant
- ▶ **Marketing**
 - Certified 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 Supply Chain Management Professional
- ▶ **Legal**
 - Certified IPR & Legal Manager
 - Certified Labour Law Analyst
 - Certified Business Law Analyst
 - Certified Corporate Law Analyst
- ▶ **Information Technology**
 - Certified Angular JS Professional
 - 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
- ▶ **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 Governance Professional
 - Certified Corporate Social Responsibility Professional
 - Certified Leadership Skills Professional
- ▶ **Life Skills**
 - 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:
V-Skills
011-473 44 723 or info@vskills.in
www.vskills.in