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Hydrogen and Oxygen training: Shopify in Headless

3 days (21 hours)

Presentation

Hydrogen and Oxygen is a front-end web development framework used to create [Shopify](#) custom storefronts. This tool includes the structure, components and tools your team needs to get started designing and building features that make your site unique. During our training, you'll be able to master web development on Shopify via Hydrogen, discovering the different templates to help you get started creating Shopify custom storefronts. Your team will be able to deploy different Hydrogen storefronts in Oxygen environments, allowing you to preview and share different storefront versions. Our training will help you understand Shopify's Hydrogen and Oxygen architecture. You'll be able to set up a professional, animated and personalized site with its own graphic charter. You'll also be introduced to the [latest](#) Shopify features.

Objectives

- Create your own Shopify storefront
- Understanding the platform's development features
- Customize the functionality and style of your website
- Understanding the Hydrogen and Oxygen ecosystem

Target audience

- Developers
- Micro-entrepreneurs

Prerequisites

- HTML and CSS
- Knowledge of a programming language

Hydrogen and Oxygen Training Program

Introduction to Shopify

- What is Shopify?
- Document backup
- Get started with Shopify
- The Shopify ecosystem

Creation of a personalized showcase

- The structure
- The components
 - Library
- The tools
- Design and development

Framework

- Plugin
 - Introducing Vite
 - Frontend Tooling
- Server-side rendering (SSR)
- Hydration middleware
- Client component code transformations

Hydrogen: components, hooks and utilities

- The different functions
- The various existing concepts
- Their uses on Shopify
- Templates
 - Hydrogen models
 - Hello World
 - Demo Store
 - Installation

Shopify Storefront API

- Data transmission
 - Components
 - Hooks
 - Utilities
- Storefront structure
- GraphQL types

Hydrogen Architecture

- Data types
 - Static
 - Dynamics
- Customer side
- Server side
- Integrated caching control
- API calls

Oxygen

- What is Oxygen?
- The Oxygen environment
- Storefronts
- Customize the environment
- Variable environments
- Local development
- Preview
- Rollbacks
- Worker Runtime APIs
 - Methods
 - Classes
 - Abstractions
- Sharing different versions of showcases

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical inputs from the trainer supported by examples and

brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.