

Updated on 10/12/2026

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Skyvern Training

2 days (14 hours)

Overview

Skyvern is an AI-powered web browser automation platform that combines language models, computer vision, and the Chromium browser to execute complex business processes. Through visual workflows, natural language-driven actions, and structured data extraction, Skyvern automates web tasks without relying solely on fragile scripts.

Our Skyvern training course will equip you with the essential skills to identify, design, and implement web automations that deliver high business value. You'll learn how to transform a manual process into a reusable, configurable, and controllable workflow.

You'll explore creating AI tasks, using workflow blocks, navigation, authentication, form filling, structured data extraction, and file management. Special attention is given to writing precise instructions and validating the results produced by the agent.

By the end of the training, you will be able to build multi-step automations, incorporate conditions, loops, and parameters, and then monitor executions to analyze errors and improve the reliability of your scenarios.

This training also covers securing credentials, session management, utilizing results, scheduled triggers, and the best practices needed to scale Skyvern automations in a professional setting.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand Skyvern's architecture and use cases for web process automation
- Design AI tasks and workflows tailored to specific business needs
- Configure navigation, authentication, data entry, and structured data extraction actions
- Implement conditions, loops, validations, and parameters in a multi-step workflow
- Secure credentials, analyze executions, and ensure the reliability of automations

Target Audience

- Python Developer
- TypeScript developers
- RPA consultants
- Automation Project Manager

Prerequisites

- Understand the general workings of web applications and processes
- Be comfortable working with data and forms
- Have a basic understanding of conditional logic, variables, and structured data
- Knowledge of Python or TypeScript is recommended for advanced integrations

Technical Prerequisites

- Access to a Skyvern environment dedicated to training
- Sufficient permissions to create, configure, and run tasks and workflows
- Access to the websites, web applications, and demo accounts used during the exercises
- Access to the credentials, sessions, and resources required for authentication scenarios
- Access to a configured Python or Node.js environment when workshops use the SDKs
- A recent web browser and a stable Internet connection to access the lab environments

Skyvern Training Agenda

[Day 1 - Morning]

Fundamentals of AI-powered web automation

- Overview of Skyvern, agent-based web automation, and key business use cases.
- Understanding the execution cycle: browser, visual analysis, DOM parsing, decision-making, action, and result verification.
- Distinguish between one-time tasks, reusable workflows, browser sessions, and executions.
- Get familiar with the Skyvern Cloud interface, task settings, and real-time monitoring.
- Write precise, contextualized, and verifiable instructions in natural language.
- Hands-on workshop: Create and run a Skyvern task to navigate a demo site and extract targeted information.

[Day 1 - Afternoon]

Extraction, Actions, and Authentication

- Configure actions for navigation, clicking, typing, selecting, and downloading files.
- Define structured data extraction using a JSON schema to obtain actionable data.
- Manipulate web forms, tables, multi-step pages, and dynamic content.
- Manage credentials, sessions, and authentication mechanisms within an automation workflow.
- Implement result checks and identify common causes of task failure.
- Hands-on workshop: Automate data collection from a demo portal with authentication and output in JSON format.

[Day 2 - Morning]

Designing Multi-Step Workflows

- Structure a workflow based on a business process and define its inputs, outputs, and success criteria.
- Assemble the navigation, connection, extraction, browser action, file, and communication blocks.
- Use parameters to make a scenario configurable and reusable by multiple users.
- Integrate conditions, loops, and AI validations to handle variable cases.
- Anticipate exceptions, timeouts, and necessary human interactions in an automated workflow.
- Hands-on workshop: Build a multi-step workflow for searching, extracting, and processing a list of web elements.

[Day 2 - Afternoon]

Ensuring Reliability and Scaling Automation

- Analyze runs, captures, action logs, and results to diagnose an execution.
- Optimize instructions, minimize steps, and select appropriate validations to improve cost, speed, and reliability.
- Secure secrets using credential vaults and apply the principle of least privilege.
- Trigger a workflow via scheduling, API, webhook, or integration with an existing process.
- Define a deployment process: testing, monitoring, error handling, and scenario evolution.
- Hands-on workshop: finalize a complete business workflow, test it under normal and error conditions, and then prepare for its deployment.

Target Audience

This training is intended for both individuals and companies—large or small—

wishing to train their teams in a new, advanced IT technology or to acquire specific business knowledge or modern methods.

Assessment upon enrollment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency level across various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.