

Automated PLC Testing Using Python and CODESYS



Product Description

Introduction To Automated PLC Program Testing using Python over OPC UA for Codesys -Elearning

Range of Functions

This is a basic introduction to the vast world of Industrial Automation PLC Testing. We will be utilizing multiple technologies to accomplish an automated method to test PLC software. The reason anyone would want to learn this course is to add the knowledge of using Python scripts in order to test multiple PLC software components, written in any PLC programming language like Ladder Logic, Structured Text, Function Blocks, etc. We will be utilizing Codesys for this purpose, but the knowledge learned here can be applied to any other PLC that supports OPC UA (which almost any modern PLC does now). All you need to start this course is some basic Python programming and PLC programming knowledge. Other than that, I will be guiding you step by step to create your own testing environment, establish communication with Codesys soft PLC, exchange information and write test cases in Python. This course is short, really exciting, and all the information here is totally new to the internet world. I am sharing with you my expertise that I have gained working in giant companies like BMW and Schneider Electric.

The skills you will learn:

- Learn to establish OPC communication server and client side
 - Learn how to write Python test cases
 - Learn how to read/write variables from and to PLC using Python and OPC UA
 - Learn about different testing methods I hope to see you all there!
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General Information



Supplier	hamshoTech Wilhelm Busch Strasse 81477 Munich Germany
Support	Tel: +49 15 22 63 43 408 mouhammad.hamshoo@gmail.com
Product	Introduction To Automated PLC Program Testing using Python over OPC UA for Codesys - Elearning
Order Number	2112000014
Sales	CODESYS Store store.codesys.com
Scope of Delivery	<ul style="list-style-type: none">■ +1.5 Hours of E-learning video content■ Unlimited Access

System Requirements and Restrictions

Programming System	CODESYS Development System V3.5.5.0
Target System	CODESYS Control V3.5.5.0
Supported Platforms / Devices	Notice: Use the project 'Device Reader' to find out the supported features of your device. 'Device Reader' is available for free in the CODESYS Store.
Additional Requirements	e.g. external tools
Restrictions	Text
Licensing	e.g. License activation optional on CODESYS Runtime Key or CODESYS Soft Key (part of CODESYS Controls)
Required Accessory	e. g. CODESYS Security Key