

## LabVIEW and TestStand

*Amsterdam (Netherlands)*

*11 - 15 November 2024*

UK Traininig

# PARTNER



# LabVIEW and TestStand

Code: IT28 From: 11 - 15 November 2024 City: Amsterdam (Netherlands) Fees: 4900 Pound

## Introduction

The Advanced LabVIEW and TestStand Course is a comprehensive program designed to provide participants with a thorough, modern understanding of LabVIEW and TestStand. Covering the latest features and techniques, this course equips participants to develop advanced applications and automated test systems efficiently. Through hands-on exercises and real-world examples, participants will acquire essential skills to design, develop, and deploy sophisticated LabVIEW applications and TestStand test sequences, preparing them for excellence in LabVIEW development and TestStand automation.

## Course Objectives

- Acquire advanced knowledge of LabVIEW and TestStand features and capabilities: Gain a deep understanding of both tools' features and applications to tackle complex projects in LabVIEW development and TestStand automation.
- Understand best practices for LabVIEW and TestStand development: Learn strategies for efficient LabVIEW programming and TestStand project management, reducing errors and enhancing productivity.
- Develop proficiency in designing and implementing complex LabVIEW applications: Build scalable and modular architectures to meet large-scale project requirements.
- Gain expertise in integrating LabVIEW applications with TestStand: Master the integration of LabVIEW functions into TestStand sequences for streamlined automation.
- Master the creation of automated test sequences using TestStand: Understand how to create customized and automated TestStand sequences.
- Explore advanced debugging and troubleshooting techniques: Improve debugging skills in both LabVIEW and TestStand to ensure optimal system performance.
- Optimize LabVIEW and TestStand performance for large-scale systems: Implement strategies to maximize efficiency in LabVIEW and TestStand for robust and reliable applications.

## Course Outlines

### Day 1: Advanced LabVIEW Topics

- Introduction to advanced LabVIEW programming concepts
- Advanced data types and structures
- Advanced file I/O and data storage
- Debugging and profiling tools in LabVIEW



- User interface development and error-handling techniques

## Day 2: LabVIEW Architectures and Design Patterns

- Overview of LabVIEW architectures and design patterns
- Modular programming and event-driven design
- LabVIEW project management and performance optimization
- Designing scalable LabVIEW applications

## Day 3: LabVIEW and TestStand Integration

- Creating LabVIEW-based TestStand steps and sequences
- Configuring communication protocols between TestStand and LabVIEW
- Error-handling and report customization in TestStand
- Customizing TestStand interfaces with LabVIEW integration

## Day 4: Advanced Topics in TestStand

- Developing complex TestStand sequences and code modules
- Customizing TestStand reports and result logging
- Advanced debugging techniques in TestStand
- TestStand deployment and maintenance practices

## Day 5: Advanced Applications of LabVIEW and TestStand

- Real-time programming in LabVIEW
- Applications of LabVIEW and TestStand in industrial automation
- Exploring emerging trends in LabVIEW development and TestStand automation

## Conclusion

This course is designed to refine participants' expertise in LabVIEW and TestStand development, with a focus on advanced integration techniques, automation, and performance optimization. With the training provided, participants will be well-prepared to develop and implement advanced applications using LabVIEW and TestStand, enhancing their skills and competitiveness in automated testing and development.



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