

PCAN (Peak CAN) Training

COURSE CONTENT

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About Multisoft

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About Course

The PCAN (Peak CAN) training by Multisoft Systems is designed to provide a comprehensive understanding of the Controller Area Network (CAN) protocol, widely used in automotive and embedded systems for efficient and reliable data communication.



Module 1: Introduction to CAN and PCAN Basics

- ✓ Overview of Controller Area Network (CAN) Protocol
 - History and Development
 - Application Areas (Automotive, Industrial Automation, etc.)
- ✓ Introduction to PCAN Tools and Interfaces
 - PCAN-USB, PCAN-PCI, and other Hardware Interfaces
 - PCAN-View Software Overview

Module 2: Understanding the CAN Bus Architecture

- ✓ CAN Network Architecture
- ✓ CAN Communication Model
- ✓ Message Frames and Data Transmission
 - Standard and Extended CAN Frames
 - Bit Timing and Synchronization

Module 3: PCAN-View Software

- ✓ PCAN-View Installation and Setup
- ✓ Configuring PCAN-USB and Other Devices
- ✓ Data Logging and Real-Time Monitoring of CAN Messages
- ✓ Bus Load Monitoring and Error Detection

Module 4: Advanced PCAN Tools and Configuration

- ✓ Configuring CAN Filters and Message Masks
- ✓ Using PCAN-Explorer for Data Analysis
- ✓ Scripting and Automation with PCAN-Basic API



- Writing and Executing Simple Scripts
- Exporting and Importing CAN Data

Module 5: Fault Diagnosis and Troubleshooting

- ✓ Analyzing CAN Bus Errors
 - Error Frames, Overload Frames, and Bus Off Conditions
- ✓ PCAN Diagnostic Tools and Error Recovery Techniques
- ✓ Troubleshooting CAN Networks using PCAN-View and PCAN-Explorer

Module 6: Integrating PCAN with Other Systems

- ✓ PCAN and Third-Party Software Integration
- ✓ Using PCAN with Data Acquisition Systems
- ✓ Network Simulation and Testing with PCAN-Explorer

Module 7: Practical Session: CAN Bus Network Setup and Testing

- ✓ Setting up a Simple CAN Bus Network using PCAN Hardware
- ✓ Monitoring CAN Messages in Real-Time
- ✓ Simulating Fault Conditions and Analyzing Responses
- ✓ Configuring Message Filters and Identifying Bus Errors

Module 8: Advanced CAN Topics

- ✓ Understanding CANopen and J1939 Protocols (Optional)
- ✓ Introduction to CAN FD (Flexible Data Rate)
- ✓ PCAN Tools for CAN FD
- ✓ Real-Time Data Analysis with PCAN