CAN FD TRAINING (16 Hrs)

CAN FD Course Agenda from ANCIT

Delivery Format	:	This Course is offered in Classroom or Online Format
Duration	:	16 Hours (2 Days)
Target Group	:	Automotive engineers and developers working on advanced CAN and CAN FD-based systems.
Prerequisites	:	Basic understanding of Classical CAN, automotive communication protocols, and network fundamentals.
Outcome	:	Comprehensive knowledge of CAN FD, its enhancements over Classical CAN, and skills to design, implement, and test CAN FD systems effectively.

Day 1.

- Recap of Classic CAN
- Introduction to CAN FD
    - CAN FD Emergence
    - CAN FD Components
    - FD Message Formats, Data Frames & Bandwidths
    - Difference between ISO CANFD & Non-ISO CAN FD
    - Description of Fields & Message types
- Differences between CAN FD and Classical CAN
- Bit Rate Switching
- Data Length Codes up to 64 bytes
- The logic behind CAN FD
- Increased requirements on the CAN FD Physical Layer
- Different types of CAN and CAN FD frames

Day 2.

- A look at the new control bits in CAN FD
    - RRS – Remote Request Substitution
    - IDE – IDentifier Extension
    - FDF – FD Format Indicator
    - res – Reserved bit in FD frames
    - BRS – Bit Rate Switch
    - ESI – Error State Indicator
- CRCs of 17 and 21 bits, and increased error detection coverage
- Sample Points and Bit Timing Considerations
- Network Topology
    - Line, Stubs, Star Topologies
    - Ringing Effect & Ways to suppress it
- CAN FD Conformance Testing
    - General Test Case Structure, Test types
    - Importance of Conformance

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