

## TTTech Automotive FlexRay Training



## Training for Time-Triggered Communication and FlexRay

TTTech Automotive with its large know-how pool in the field of time-triggered technology is one of the preferred automotive industry partners for creating distributed control systems. TTTech Automotive provides products and services for design and implementation of time-triggered networks using the FlexRay protocol. In alignment with development and availability of design tools and validation tools for FlexRay-based systems, trainings are offered to prepare project managers, network engineers and software developers for design and development projects in the fields of embedded systems and FlexRay.

### FlexRay Seminar

In this intensive course participants learn about the concepts and mechanisms of FlexRay in order to understand the major design requirements and the impact of the FlexRay communication protocol on the network design of an embedded system. Furthermore participants get to know how FlexRay can be used for deterministic, hard real-time systems.

### Main Topics

- **Time-Triggered Communication**
  - Why to use time-triggered communication
  - FlexRay background and requirements
  - Protocol comparison FlexRay and CAN
- **FlexRay Basics**
  - Protocol overview
  - Time-triggered and event-triggered use of FlexRay
  - Network configuration, off-line and on-line configuration
  - FlexRay electrical physical layer
- **Protocol Properties**
  - Distributed startup and synchronization
  - Design constraints and efficiency
  - Communication cycle, static and dynamic communication
  - Frame format and data transmission
- **Design Process**
  - Relationship OEM and supplier
  - Tools for design and validation
  - FlexRay network scheduling

Fill out this registration form and fax it to +43 1 585 65 38-5090  
or email the signed form to [training@tttech-automotive.com](mailto:training@tttech-automotive.com)

### Registration Information

Registration should be made 21 days prior to the course. After receiving your registration, TTTech Automotive will send a confirmation and the course details. An accepted registration can be canceled up to 14 days prior to the beginning of the course. For any registration canceled at a later time, TTTech Automotive will be obliged to charge the full amount. The registered person can attend one of the upcoming courses free of charge. Substitutions can be made at any time. The course fee includes documentation material, lunches, refreshments, and coffee. TTTech Automotive reserves the right to cancel or reschedule a course for any reason up to seven days prior to its beginning. The course fee will be refunded to any registrants in case of cancellation by TTTech Automotive.

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First Name / Surname

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Company / Function / Department

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Street Address

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City / State / Zip Code / Country

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E-mail

To finish your registration please provide your **credit card information\*** for the obligatory prepayment of the training.

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Cardholder

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Number

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Exp. Date

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Date, Signature

\* TTTech accepts Visa and Mastercard. In case you have any questions concerning the payment please contact [training@tttech-automotive.com](mailto:training@tttech-automotive.com)

Further information on the company and trainings is available at [www.tttech-automotive.com](http://www.tttech-automotive.com)