

DE0801 Software implementation in C, in accordance with MISRA C coding guidelines



Have you ever heard about any coding guidelines?



Do you know why coding guidelines for C language are required by the safety-related standards?



Have you ever thought about using MISRA C in your project?



Do you know how to adopt and comply with the MISRA C?



Join our training and learn more about MISRA C and writing reliable C code

Short description

This training introduces the MISRA C coding guidelines and MISRA C key concepts.

It focuses on the implementation of reliable non-safety-related, safety-related, and security-related software.

The learning success, understanding of C-language-specific problems, and solutions to them are supported by examples, exercises, and interactive quizzes during the training sessions.

The training also includes the exida recommendations for adopting MISRA C in your software development process.

Agenda and Content

- ◆ Background to MISRA C coding guidelines
 - What's MISRA C and why do we need it
 - MISRA C coding guidelines history
- ◆ Overview of the MISRA C coding guidelines
 - Guidelines classifications, categories, decidability.
 - Guidelines format
- ◆ Overview of the MISRA C directives and rules
 - document walk-through
 - exercises
- ◆ Overview of the MISRA C rules
- ◆ Introduction to the Essential Type concept
- ◆ Overview of security-related guidelines
 - Overview of MISRA C Amendments and Addendums
 - Overview of C Secure coding guidelines
 - Overview of CERT C coding guidelines
- ◆ Overview of MISRA C updates for C11 and C18
- ◆ Adopting MISRA C in the software development process
 - Compliance with ISO 26262 and IEC 61508 and other safety standards
 - Process activities
 - Tools management, configuration, and validation
 - Deviation procedure
 - exida recommendations

Who should attend?

- ◆ Software Development Engineers that implement software in C and/or are responsible for the deployment of coding guidelines
- ◆ Software Architects

Duration: 2 days à 4 hours (1 day à 8 hours if requested)

Language: English

The training material will be in English.

Location: online

Certificate: Each participant gets a letter of attendance.

For more information, please contact:

Kerstin Tietel

☎ +49 89 44118232

✉ kerstin.tietel@exida.com