

Trainings

Title	Days	Price in €	Date
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Agile and Scrum
Agile Development

Agile Development of Embedded Systems	2		Onsite Training
Scrum in the Agile Development of Embedded Systems	3	2.100	on request

Agile Test - Test-Driven Development (TDD)

Software Test: Structured and Efficient Embedded System Tests	4	2.050	on request
Embedded Software Test Object-Oriented for C++: Best Practices for Class and Component Tests	4	2.050	01.07. - 04.07.2019 24.02. - 27.02.2020

Scrum

Scrum in the Agile Development of Embedded Systems	3	2.100	on request
Agile Development of Embedded Systems	2		Onsite Training

Quality and Safety/Security
Safety/Security

Functional Safety of Electronics and Software: Implementation Compliant with IEC 61508 and ISO 26262	3	1.800	21.10. - 23.10.2019
Security of Embedded Systems in the Context of Functional Safety	1	650	24.10. - 24.10.2019

Software Test

Software Test: Structured and Efficient Embedded System Tests	4	2.050	on request
Embedded Software Test Object-Oriented for C++: Best Practices for Class and Component Tests	4	2.050	01.07. - 04.07.2019 24.02. - 27.02.2020

Agile Test - Test-Driven Development (TDD)

Software Test: Structured and Efficient Embedded System Tests	4	2.050	on request
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Systems and Hardware Engineering
Analysis, Design and Architecture

SysML: Model-Based System Analysis and Design with the Systems Modeling Language	3	1.600	on request
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Safety/Security

Functional Safety of Electronics and Software: Implementation Compliant with IEC 61508 and ISO 26262	3	1.800	21.10. - 23.10.2019
Security of Embedded Systems in the Context of Functional Safety	1	650	24.10. - 24.10.2019

Software Engineering
Analysis, Design and Architecture

UML Basics and Introduction to Model-Based Software Development	3	1.380	22.07. - 24.07.2019 13.01. - 15.01.2020
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Trainings

Title	Days	Price in €	Date
Design Patterns (not only) for Embedded Systems	4.5	2.250	on request
Coaching: Software Analysis, Design and Architecture			on request

Programming Languages

C++: Object-oriented Programming (OOP)	4.5	1.980	on request
C++ Advanced: Extended Programming Techniques for C++ Developers	4.5	1.980	on request
Python: Object-Oriented Script Language	4.5		Onsite Training
Coaching: Programming Languages			on request

Safety/Security

Security of Embedded Systems in the Context of Functional Safety	1	650	24.10. - 24.10.2019
Functional Safety of Electronics and Software: Implementation Compliant with IEC 61508 and ISO 26262	3	1.800	21.10. - 23.10.2019

Embedded and Real-Time Software Engineering
Analysis, Design and Architecture

Software Architectures for Embedded and Real-Time Systems	4	2.000	20.05. - 23.05.2019 25.11. - 28.11.2019
Design Patterns (not only) for Embedded Systems	4.5	2.250	on request
UML Basics and Introduction to Model-Based Software Development	3	1.380	22.07. - 24.07.2019 13.01. - 15.01.2020
Coaching: Software Analysis, Design and Architecture			on request

Embedded and Real-Time Programming

Embedded C: Programming Methods and Tools for Embedded Applications	4	1.960	28.10. - 31.10.2019 13.01. - 16.01.2020
Embedded C++: Object-Oriented Programming for Microcontrollers with C++/EC++ and UML	4.5	2.250	02.09. - 06.09.2019 09.03. - 13.03.2020
Embedded C++ Advanced: Object-Oriented Programming for Microcontrollers with C++/EC++	4.5	2.250	on request
Renesas Synergy™: Application Programming	3	1.650	on request
Functional Safety of Electronics and Software: Implementation Compliant with IEC 61508 and ISO 26262	3	1.800	21.10. - 23.10.2019
Security of Embedded Systems in the Context of Functional Safety	1	650	24.10. - 24.10.2019
Coaching: Embedded and Real-Time Programming			on request

Multicore Programming

Embedded Multicore Microcontrollers: Practical Application	3	1.800	02.09. - 04.09.2019 25.11. - 27.11.2019 16.12. - 18.12.2019 30.03. - 01.04.2020
Tracing and Multicore Debugging for TriCore/AURIX™ (MCDS) with Lauterbach TRACE32	1	630	on request
Tracing and Multicore Debugging for TriCore/AURIX™ (MCDS) with the PLS Universal Debug Engine UDE	1		Onsite Training

Trainings

Title	Days	Price in €	Date
Coaching: Multicore Microcontroller Selection			on request

Embedded and Real-time Operating Systems, RTOS

RTOS Basics and Application: RTOS Mechanisms and their Application in Runtime Architectures for Embedded and Real-Time Systems	4	2.200	24.06. - 27.06.2019 13.01. - 16.01.2020 30.03. - 02.04.2020
RTOS Application: Development of Runtime Architectures for Embedded and Real-Time Systems	1	600	27.06. - 27.06.2019 31.10. - 31.10.2019 16.01. - 16.01.2020
Renesas Synergy™: Application Programming	3	1.650	on request
Coaching: Embedded and Real-Time Operating Systems			on request

Microcontrollers
Arm®/CORTEX®

Cortex®-M7, M4, M3, M1, M0: Arm® Cortex-M Architecture	4	2.200	09.09. - 12.09.2019 09.12. - 12.12.2019 09.03. - 12.03.2020
Cortex®-M23, M33: Armv8-M Architecture with Security Extension	4	2.400	08.07. - 11.07.2019 18.11. - 21.11.2019 30.03. - 02.04.2020
Cortex®-M23, M33: Armv8-M Architecture for Trainees with Knowledge of the Previous Version	2	1.650	on request
Cortex®-R4, R5, R7, R8: Arm® Cortex-R Architecture	4	2.200	08.07. - 11.07.2019 25.11. - 28.11.2019
Cortex®-A5, A7, A8, A9, A15, A17: Arm® Cortex-A Architecture	4	2.200	08.07. - 11.07.2019 25.11. - 28.11.2019
Renesas Synergy™: Application Programming	3	1.650	on request
STM32: Technical Training	3	1.650	on request
XMC4000/1000: 32-Bit Industrial Microcontroller Arm® Cortex®-M4/-M0	5	2.400	on request
Arm7/ 9/ 10/ 11™: Architecture and Embedded Programming	4	2.200	08.07. - 11.07.2019 25.11. - 28.11.2019
Atmel Studio 6 & ASF for Atmel Arm Core-based Flash Microcontrollers	1		Onsite Training
Coaching: Arm®/CORTEX®			on request

TriCore™/AURIX™

AURIX™ TC2xx: 32-Bit Multicore Microcontroller Family	5	2.750	14.10. - 18.10.2019 03.02. - 07.02.2020
AURIX™ TC3xx Workshop: 32-Bit Multicore Mikrocontroller-Family (2G Second Generation)	5	2.950	01.07. - 05.07.2019 26.08. - 30.08.2019 18.11. - 22.11.2019 17.02. - 21.02.2020
Generic Timer Module v1 and v3 (Bosch-GTM): Architecture and Programming	2	1.200	19.12. - 20.12.2019
TriCore™ AUDO MAX Family: Architecture and Peripherals	5	2.500	on request
TriCore™ AUDO FUTURE Family: Architecture and Peripherals	5	2.500	on request
TC17x7: Practical Application of TriCore™ Specific Peripherals	3	1.650	on request

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Debugging for TriCore/AURIX™ with Lauterbach TRACE32	1	630	on request
Tracing and Multicore Debugging for TriCore/AURIX™ (MCDS) with Lauterbach TRACE32	1	630	on request
Debugging for TriCore/AURIX™ with the PLS Universal Debug Engine UDE	1		Onsite Training
Tracing and Multicore Debugging for TriCore/AURIX™ (MCDS) with the PLS Universal Debug Engine UDE	1		Onsite Training
Coaching: TriCore™/AURIX™			on request

Power Architecture®

SPC56XX: 32-Bit Single-Core Power Architecture®	5		Onsite Training
MPC56XX: 32-Bit Power Architecture®	5	2.750	on request
Coaching: Power Architecture®			on request

Microcontroller Architectures and Peripherals

Microcontroller/ Microprocessor Basics	4		Onsite Training
XC2000/XE16x/XC16x/ST10: Architecture, Peripherals and Embedded Programming	5	2.500	on request
XC8xx/C500/8051 8-Bit Microcontrollers: Architecture and Embedded Programming	5	2.350	on request
Embedded Multicore Microcontrollers: Practical Application	3	1.800	02.09. - 04.09.2019 25.11. - 27.11.2019 16.12. - 18.12.2019 30.03. - 01.04.2020
Coaching: Microcontroller Architectures and Peripherals			on request

Embedded and Real-Time Programming

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Renesas Synergy™: Application Programming	3	1.650	on request
Coaching: Embedded and Real-Time Operating Systems			on request

Tools and Debug

Debugging for TriCore/AURIX™ with Lauterbach TRACE32	1	630	on request
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Tracing and Multicore Debugging for TriCore/AURIX™ (MCDS) with the PLS Universal Debug Engine UDE	1		Onsite Training

Test and Debug
Software Test

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Debug

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★ = Guaranteed to run