## HECTOR SCHOOL ACADEMY OF FURTHER EDUCATION



## Unlock Your Potential with a Certificate of Advanced Studies (CAS)





»At a time when technological opportunities and the market situation are changing very quickly, it is difficult for companies - even if they are currently market leaders - to keep up with new developments. Individual employees in particular have to constantly re-orient themselves and qualify themselves - at the highest academic level. This requires time out sessions and conscious, far-sighted qualifications.«

Program Director Prof. Dr.-Ing. Eric Sax, Institute for Information Processing Technology, KIT

A Certificate of Advanced Studies (CAS) is a compact qualification designed to equip professionals with expertise in a specific field. Combining practical experience with industry-relevant insights, the CAS follows a compact four-step format, with each step consisting of 3–4 days of intensive learning. Developed by leading experts from both academia and industry, the program delves into cutting-edge topics such as systems engineering, e-mobility, and automated driving, ensuring participants gain hands-on knowledge and future-proof skills.

It offers a flexible and impactful way to deepen expertise, broaden professional horizons, and address emerging challenges in today's fast-evolving industries.

Language:	English or German (upon request)	S
Admission requirements:	<ul> <li>First academic degree (e.g. Bachelor, Master or Diploma)</li> <li>Professional experience</li> <li>English language proficiency</li> </ul>	0
Location:	HECTOR School of Engineering and Management Schlossplatz 19 76131 Karlsruhe	
Costs:	5,970€* for the entire CAS program	
Certificate	KIT Certificate and optionally 10 ECTS points upon exam completion	

\*The CAS are exempt from value added tax (VAT).

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Start date: May 2025 E-Mobility Systems and Technology	<ul> <li>Requirements, Solutions and Challenges of E-Mobility</li> <li>Electric Drive Trains</li> <li>Energy Storage: H2-Storage</li> <li>Power Electronics</li> <li>Energy Storage: Batteries &amp; Fuel Cells</li> <li>Regulations/Political E-Mobility</li> <li>Drive Systems</li> </ul>	
Start date: November 2025 Systems and Software Engineering	<ul> <li>Fundamentals of Systems Engineering</li> <li>Embedded Systems Development</li> <li>Control Systems Development</li> <li>Modeling and Simulation</li> <li>Model-Based System Engineering</li> <li>Sustainable Engineering</li> <li>Software Engineering</li> <li>Discrete-Event Systems Simulation</li> </ul>	E E
Start date: November 2025 Methods and Technologies of Automated Driving	<ul> <li>Systems Validation</li> <li>Eletronic Systems Synthesis</li> <li>Machine Vision</li> <li>Decision Modeling</li> <li>Mobile Perception Systems</li> <li>Driver Assistance Systems</li> </ul>	A S
	Your contact for further questions: <b>Ms. Martina Waldner</b> Senior Program Consultant HECTOR School <u>info@hectorschool.com</u>	

www.hectorschool.kit.edu