

# KAÏNA-COM TRAINING CATALOGUE

## Introduction to Advanced Automotive

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## KIoT001 – Introduction to Advanced Automotive

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**Reference** KIoT001

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**Experience**

- Beginner
- Intermediate
- Advanced

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**Duration** Training Program:

- 1 day

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**Training Method**

- I: i-learning, individual training (web-based training)
- V: v-learning, virtual class
- C: c-learning, classroom training

**KAÏNA-COM**  
LE CARRÉ HAUSSMANN II,  
6 Allée de la Connaissance  
77127 Lieusaint - France

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**Price** 668,50 € HT

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**Prerequisite**

- Basic technological understanding
- Basic communication and network knowledge

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**Audience** C level executives in related industries (CMOs, CTOs, R&D VPs, Product marketing VPs), Product marketing specialists, Product managers, System architects and System designers, marketing managers.

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## **KIoT001 – Introduction to Advanced Automotive**, Continued

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### **Objective**

The “Introduction to advanced automotive” one day seminar is a thorough review of the advanced automotive world. The main focus of the seminar will be functional & technology review of all areas of advanced automotive and smart mobility. This will include Vehicle internal computing systems, Infotainment, mobile application, cloud, data analysis, short range (V2X, DSRC) communications, smart mobility and autonomous driving. The seminar will also review the advanced automotive market allowing its participants an understanding of the market structure and trends.

The seminar will be conducted as a full day seminar. It will be presented as a series of frontal presentations associated with participants’ activities such as case study analysis and industry challenges simulations of both products and business issues.

#### Relevant industries:

Vehicle Telematics, Vehicle2X technologies, ADAS, Communications, Mobile communications, Cloud services, Big data, Processors and chip designers, Mobile and RF equipment vendors, Cyber security, automotive services, intelligent transportation systems, Relevant governmental and municipal agencies

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## KIoT001 – Introduction to Advanced Automotive, Continued

### Course Contents

#### Course Contents :

Table 1: KIoT001 - Course Contents

Chapter	Description
<b>Introduction to Advanced Automotive</b>	<ul style="list-style-type: none"> <li>• Advanced automotive basics</li> <li>• Advanced automotive technologies</li> <li>• Application range</li> <li>• Market enablers (HMI &amp; Cyber security)</li> <li>• ECO system</li> <li>• Cyber security challenges and solutions</li> <li>• Future trends</li> </ul>
<b>Legacy Vehicle Telematics</b>	<ul style="list-style-type: none"> <li>• Vehicle Telematics basics</li> <li>• Vehicle Telematics applications</li> <li>• Telematics devices</li> <li>• Telematics servers and software &amp; SAAS architectures</li> <li>• Driver behavior &amp; Insurance Telematics</li> </ul>
<b>Infotainment Cloud &amp; Application Development</b>	<ul style="list-style-type: none"> <li>• Infotainment basics</li> <li>• IVI topologies and working modes</li> <li>• Head computers</li> <li>• Operating systems</li> <li>• Data processing &amp; analysis</li> <li>• Mobile communication challenges &amp; solutions</li> <li>• Application development for cars – Basics</li> <li>• Prominent application platforms: MirrorLink; CarPlay &amp; Android auto</li> </ul>
<b>Vehicle Computing &amp; Resources</b>	<ul style="list-style-type: none"> <li>• Vehicle internal Network architecture</li> <li>• Vehicle protocols</li> <li>• Vehicle information resources</li> <li>• Vehicle diagnostics</li> </ul>

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## KIoT001 – Introduction to Advanced Automotive, Continued

### Course Contents, continued

Chapter	Description
<b>ADAS V2X</b>	<ul style="list-style-type: none"> <li>• ADAS basics</li> <li>• Sensor fusion</li> <li>• V2X Basics</li> <li>• V2X protocols</li> <li>• ADAS road map towards the Autonomous driving</li> <li>• Connected ADAS</li> <li>• Machine learning use in ADAS and connected ADAS</li> <li>• V2X and mobile edge communications</li> <li>• V2X trendsPart</li> </ul>
<b>Smart Mobility</b>	<ul style="list-style-type: none"> <li>• 21th century transportation challenges</li> <li>• Range of ITS solutions</li> <li>• Traffic management – detection, control, prediction &amp; planning</li> <li>• Car as a service (CAAS)</li> <li>• Multi modal transportation</li> <li>• Multi modal transportation and the autonomous car</li> <li>• Smart parking solutionsPart</li> </ul>
<b>Autonomous driving</b>	<ul style="list-style-type: none"> <li>• Autonomous driving highlights</li> <li>• SAE autonomous driving 5 levels model</li> <li>• Autonomous driving enabling technologies</li> <li>• Current status &amp; projects</li> <li>• Products roadmap towards full autonomy</li> <li>• Barriers towards autonomous driving implementation</li> <li>• Ethical &amp; legal challenges</li> </ul>

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## KIoT001 – Introduction to Advanced Automotive, Continued

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### Course Contents, continued

Chapter	Description
<b>The End</b>	<ul style="list-style-type: none"><li>• Summary</li><li>• Q&amp;A</li><li>• Course's Evaluation</li></ul>

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