KUKA

Training. Knowledge. Advancement.
_KUKA College

The perfect balance
between theory and practice ...

Training. Knowledge. Advancement. The greatest capital of our industry is its highly qualified staff. KUKA College offers top-quality training programs, individually tailored to the customer's needs and the relevant applications, teaching you how to work with KUKA robots and/or deepen your knowledge of robotics. The modular structure of the seminars allows for step-by-step qualification on the basis of certified quality standards. Our KUKA College instructors provide realistic training – after all, each participant will have to put what is learned to use in everyday practice. The instructors know what they are talking about: they possess practical experience, and have been trained in the theory and methodology of teaching. They are thus able to make even complex subject matter easy for participants to understand. The balance between theory and practice is 50:50.

50:50

_Knowledge

_Advancement

_Training

... only at KUKA College:

- The seminars in KUKA Colleges offer each participant a custom-tailored concept for maximum results. For Robot Users, Robot Maintenance Engineers, Robot Programmers or Robot Cell Designers alike.
- Logically structured courses by KUKA instructors with practical experience and special training in teaching methodology.
- Task-related learning in application training courses – practical knowledge for everyday use.
- Robotic cells developed specially for efficient practical training.
- Robotic technology and seminar documentation are continuously updated and optimized for training purposes.
- Modern training environment.
- Mobile cells complete with robots and the relevant handling system enable the performance of on-site programming seminars.
- Globally certified training standards.

Modularity:
A proven model for success.

The modular design of KUKA College always allows you to find just the right courses to meet your current practical requirements. Overview of the seminars:

Robot User

Robot Operation 1
Robot Operation PRO
Robot Operation KUKA.ArcTech

Robot Operation LBR iiwa

Robot Programmer

Robot Programming 1

Field Bus Technology	Start-Up and Configuration
• ProfiNet	• KUKA.ConveyorTech
• Ethernet IP	• KUKA.mxAutomation
• EtherCAT	• KUKA.SafeOperation
• Profibus	• Other technologies
• DeviceNet	
• Interbus	

Robot Programming 1   Robot Programming 2

Start-Up, Configuration and Programming
- KUKA.CNC
- KUKA.VisionTech
- KUKA.FlexPal
- External Axes
- KUKA.ArcTech
- KUKA.RSI
- Other technologies

Start-Up, Configuration and Programming
- LBR iiwa

Robot Maintenance Engineer

Robot Programming 1 or Robot Operation PRO

Electrical Servicing

Mechanical Servicing

Robot Cell Designer

Robot Programming 1

KUKA.SIM
KUKA.SafeOperation

Robot Selection and Integration of Safety Systems for KUKA Robotic Cells

KUKA College:
For maximum learning success.

Our seminar concept is intended for personnel at all levels of your company. The modular structure of the seminars allows the step-by-step qualification of your employees on the basis of certified quality standards. Our training courses are held worldwide to the same high standards. For further information on qualifications and more, visit: www.kuka-college.com

Robot User

Production personnel (operators/set-up personnel). Work with existing programs and keep production running smoothly in a robotic cell. Learn how to start the robot system, operate the robot in accordance with the safety standards, safely retract the robot following faults and restart the system. Master the robot-related tasks of robot/system operators, such as starting/restarting and safely retracting a robot following faults, and monitor production. Furthermore, adapt existing motion programs for other components and learn to create new programs on this basis.

Target group	Seminars
Production personnel	Robot Operation 1
Robot operators	Robot Operation PRO
System personnel	Robot Operation KUKA.ArcTech
Set-up personnel	Robot Operation LBR iiwa
System operators	

Your qualifications as a Robot User

- Know how to work with existing programs and keep production running smoothly in a robotic cell.
- Learn how to start the robot system, operate the robot in accordance with the safety standards, safely retract the robot following faults and restart the system.
- Adapt existing motion programs to new production conditions.

Robot Programmer

System integrators and programmers. Integrate robots into production cells and automation systems, establish communications between the robot and other cell components and create production programs. Learn how to use common field bus systems, integrate external axes and kinematic systems into the KUKA controller and work with the safety controller. Create both simple and complex robot programs for different systems from scratch, modify these and add new functionalities.

Target group	Seminars
Machine and system builders	Robot Programming 1
System integrators	Robot Programming 2
Robot programmers	Field Bus Technologies
Automation specialists	KUKA.SafeOperation
Start-up technicians	External Axes
System programmers	KUKA.CNC
Robot specialists	KUKA.mxAutomation
	Configuration and Programming of KUKA.ArcTech
	Configuration and Programming of LBR iiwa
	Other technologies

Your qualifications as a Robot Programmer

- As a Robot Programmer, learn how to program with inline forms at user level and acquire free-programming techniques for the creation of structured robot programs.
- Optimize motion sequences and accelerate robot cycle times.
- Learn to use different field bus systems and ensure communications within the cell.
- Configure various robot technologies and applications and integrate them into automation systems.

Robot Maintenance Engineer

Maintenance personnel and robot service technicians. Diagnose and eliminate faults in the control and drive systems quickly and effectively. Your tasks include start-up, maintenance and repair. Our practical seminars provide optimal preparation for these tasks.

Target group	Seminars
Maintenance technicians	Electrical Servicing
System electricians	Mechanical Servicing
Robot service technicians	Servicing of Small Robots
Production electricians	
Mechanics	
System engineers	

Your qualifications as a Robot Maintenance Engineer

- Know how to diagnose faults in the control and drive systems and the robot arm.
- Avoid standstills through preventive maintenance.
- Minimize downtimes and standstill times with the fastest and most effective troubleshooting methods.

Robot Cell Designer

Planners, project planners and designers. Make optimal use of the potential applications of the robot and plan its efficient and safe integration into production environments and factories. Acquire an overview of the optimal applications of the KUKA robot product range. The seminars on simulation and offline programming enable the fastest possible production start.

Target group	Seminars
System designers	Robot Selection and Integration
Offline programmers	Safety Systems for KUKA Robotic Cells
Project planners	KUKA.Sim Layout
Planners	KUKA.Sim PRO
Safety officers	KUKA.SafeOperation
Start-up technicians	

Your qualifications as a Robot Cell Designer

- Become familiar with selection criteria and choose the most suitable robots and interfaces for each application.
- Know the safety requirements for robotic cells and plan CE-compliant production cells.
- Create simulations of robotic cells, program offline and thereby minimize start-up times.
- You receive the qualification as a KUKA Certified Robot Engineer, which attests to the highest level of practical knowledge.

KUKA College – never far away.
In over 30 countries.
With uniform training standards
around the globe.

www.contact.kuka-robotics.com

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www.kuka.com