



**LEARN TRAIN ADVANCE KNOW  
EXPERIMENT PROGRAM**

**KUKA COLLEGE**

WORKING IDEAS





# QUALIFICATIONS FOR SUCCESS

Highly qualified employees are the most valuable asset in our industry – this is something about which KUKA Roboter GmbH, one of the world's leading manufacturers of industrial robots, is convinced. That is why equipping customers for economic success means not just supplying state-of-the-art robots, but also training customers in their optimal use at KUKA College.

Our seminars offer each participant a custom-tailored concept for maximum results. The training is organized in modules so that participants can gain additional qualifications step by step. Ideal for system operators, service personnel, programmers, robotic system designers, and also managers.

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# SHARING EXPERIENCE

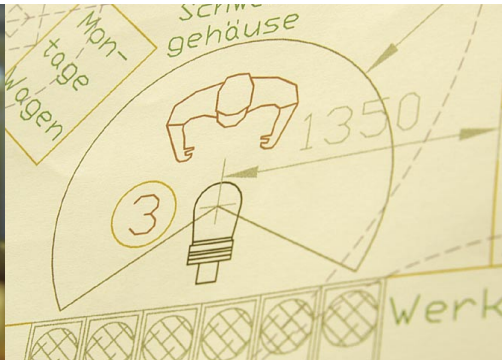
The decisive factor for economic success is not the individual robot, but the complete system. Besides hardware, software and customer service, expert advice and training play an important role. It is taken for granted at KUKA Roboter GmbH that we will continue to be there for the customer, from the first informational contact right through to the application.

Benefit from our many years of experience! Our KUKA College instructors provide realistic training – after all, each participant will have to put what is learned to use in everyday practice. KUKA 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.



Here is a convenient guide to the structure of the specific courses of study and the individual seminars that are offered. The color codes to the right will enable you to recognize their contents at a glance.

-  Programming
-  Electrical Servicing
-  Mechanical Servicing
-  Electrical and Mechanical Servicing
-  Specialist seminars
-  Administration and Configuration
-  Cell Planning and Configuration
-  Simulation and Offline Programming
-  Applications
-  Seminars for non-technical personnel



### **Certified Robot College**

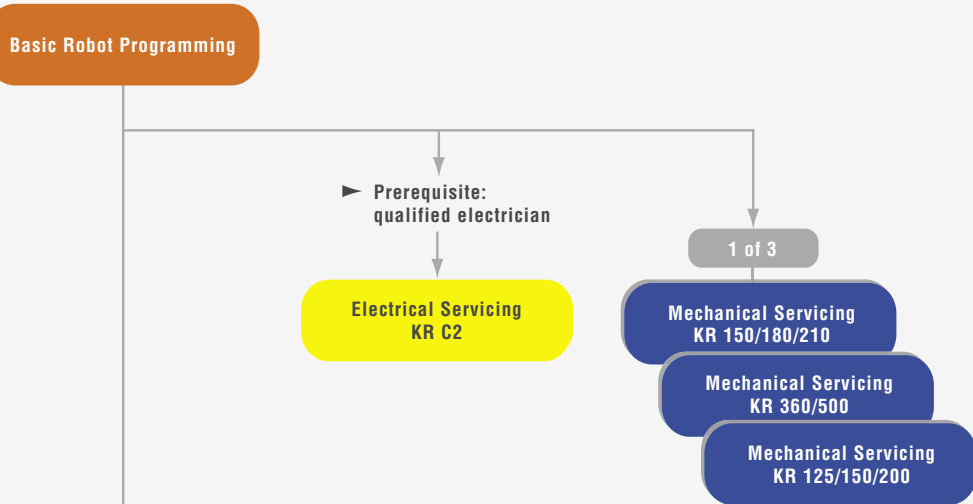
The path to becoming a robot expert has long ceased to be a matter of “learning by doing”. If you want to succeed, you need qualified instructors – and optimized course contents. The contents of each seminar at KUKA College are clearly defined. KUKA instructors can thus guide participants step by step to their goal – an optimal qualification.

KUKA College has available a wide spectrum of courses, from training in fundamentals, programming and servicing right through to special application seminars. All KUKA College locations are certified to guarantee the same high quality standard. All instructors are highly qualified, and the training facilities are state-of-the-art. In addition to current robot types, other components such as external axes, bus systems and PLCs are also available, making it possible to set up a variety of system configurations. High-tech training requires high-tech equipment.

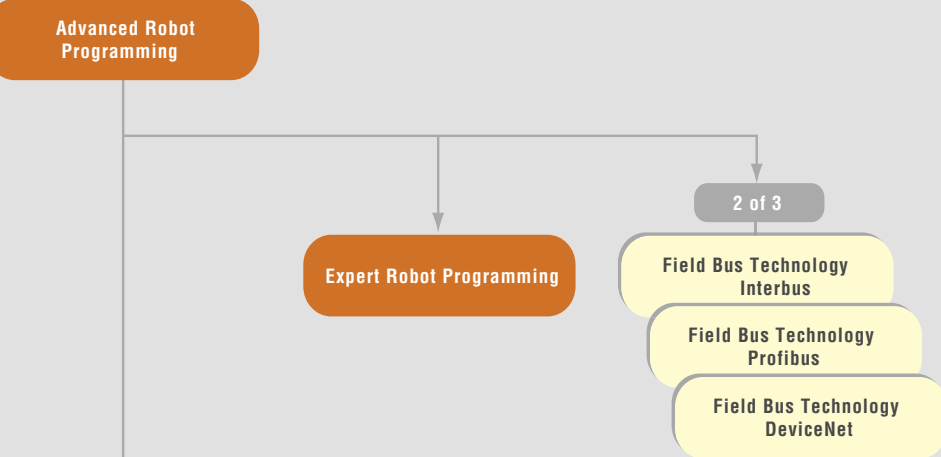


A highlight of the curriculum at KUKA College is the training program for qualification as a KUKA Certified Robot Professional. The three subject areas of the training are aimed at robot service technicians, programmers, and administrators. In each specialist area, participants learn what is needed to become a fully-qualified robot expert. Graduates' skills are verified and documented by means of a final examination in each area, leading to a diploma as a KUKA Certified Robot Professional in one of the three technical fields: Robot Technician, Robot Programmer or Robot Administrator.

**Robot Technician**



**Robot Programmer**



**Robot Administrator**





## ROBOT OPERATOR SEMINAR

In the Robot Operator seminar, experienced instructors train participants in the operation of robots in a system. Graduates have mastered the fundamentals of KUKA robot technology and can assist in commissioning work on robot systems, can operate robots in accordance with the safety regulations, and can carry out point corrections on simple application programs.

- ▶ Previous technical knowledge and familiarity with PCs and Windows are helpful!

Robot Operation  
Controller KR C (VKR C)

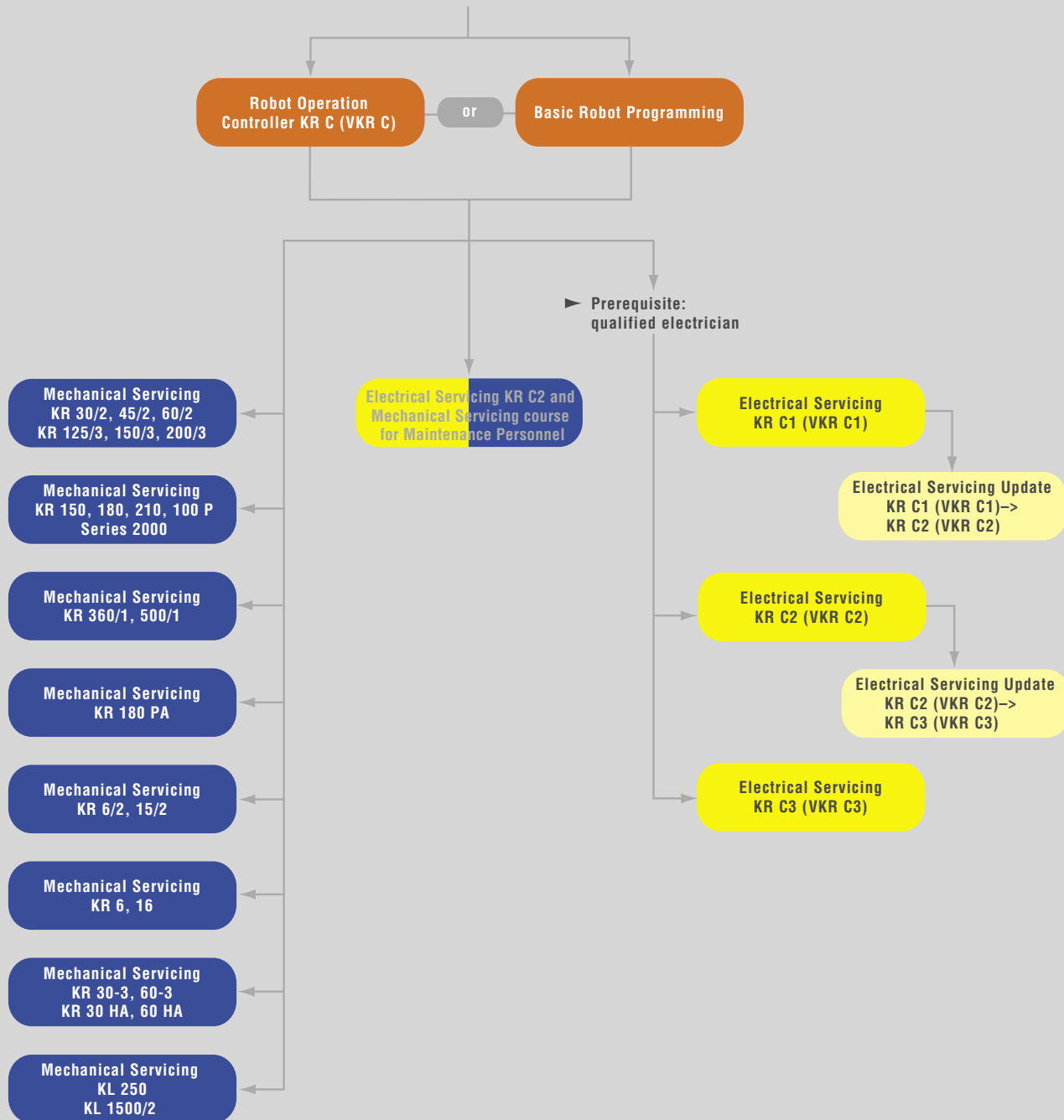


## ROBOT SERVICE TECHNICIAN SEMINARS

Personnel whose jobs involve the commissioning, maintenance and servicing of robot systems and the creation of simple application programs can benefit greatly from our seminars for robot service technicians. Participants learn how to diagnose and rectify faults in controllers, drive systems and in the robot arm. A basic course in Robot Operation or Basic Robot Programming serves as a foundation for special seminars in Electrical and Mechanical Servicing.



► Previous technical knowledge and familiarity with PCs and Windows are helpful!

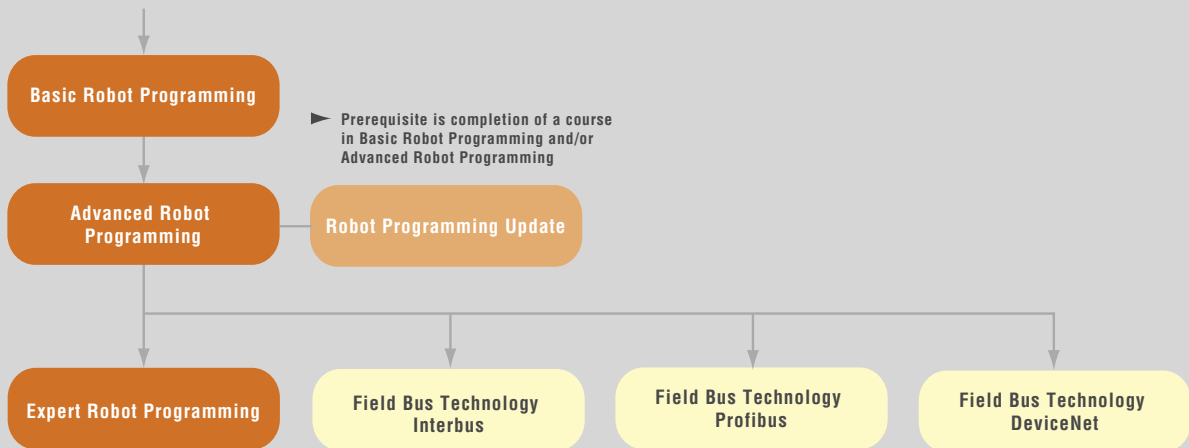


## ROBOT PROGRAMMER SEMINARS



A robot programmer has to be able to create new robot programs, to modify existing programs, and to add new program sections. Participants in these seminars learn how to implement automation tasks in the form of structured robot programs, and to optimize program run times. They are thus able to speed up production and make subsequent modification of the program easier. Participants also learn how to work with the field bus systems which are most often used for the control of robots (DeviceNet, Interbus, Profibus).

► Previous technical knowledge and familiarity with PCs and Windows are helpful!

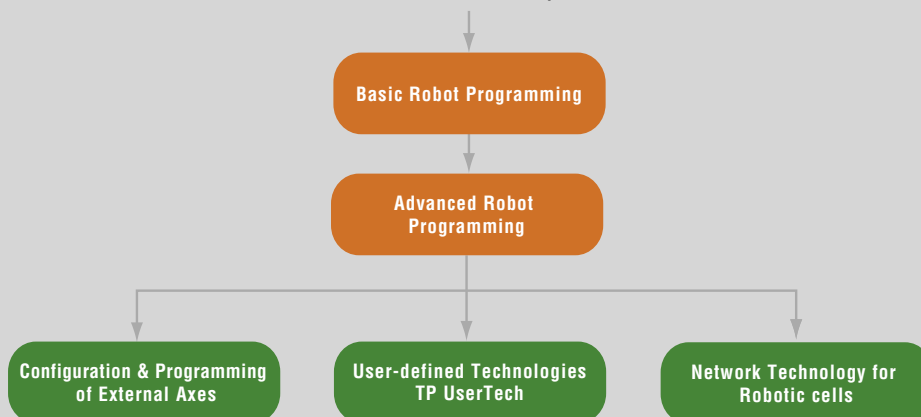


## ROBOT ADMINISTRATOR SEMINARS



Robot administrators configure the user interface for the robot controller, define customer-specific and application-specific program commands and integrate them into the robot controller. They also learn to make full use of the robot's potential and integrate it optimally into the production process. This also includes the configuration and programming of external axes and integration of the robot controller into a Windows network.

► Previous technical knowledge and familiarity with PCs and Windows are helpful!

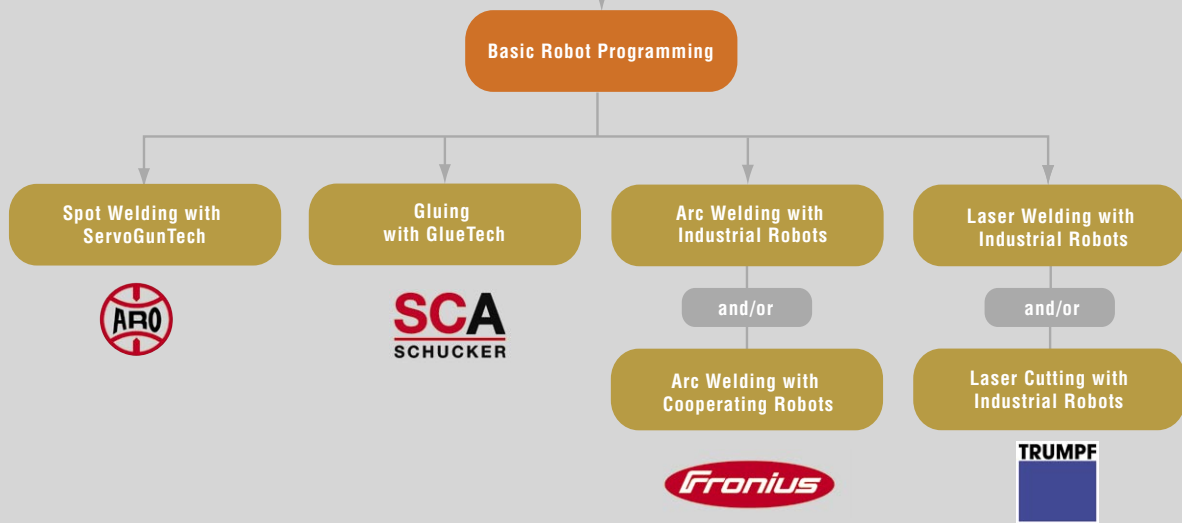




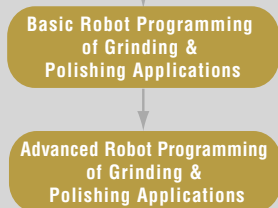
Spot welding, arc welding, grinding and polishing, adhesive bonding or laser welding and cutting – all processes which can be made highly productive through the use of robots. Special application seminars at KUKA College provide training to programming personnel whose everyday work requires them to create and modify technology-specific programs. These seminars are conducted in cooperation with partner companies who are responsible for the specific application technology.



► Previous technical knowledge and familiarity with PCs and Windows are helpful!



► Experience in operation of a grinding and polishing system and familiarity with PCs and Windows are helpful, experience in CNC programming is useful



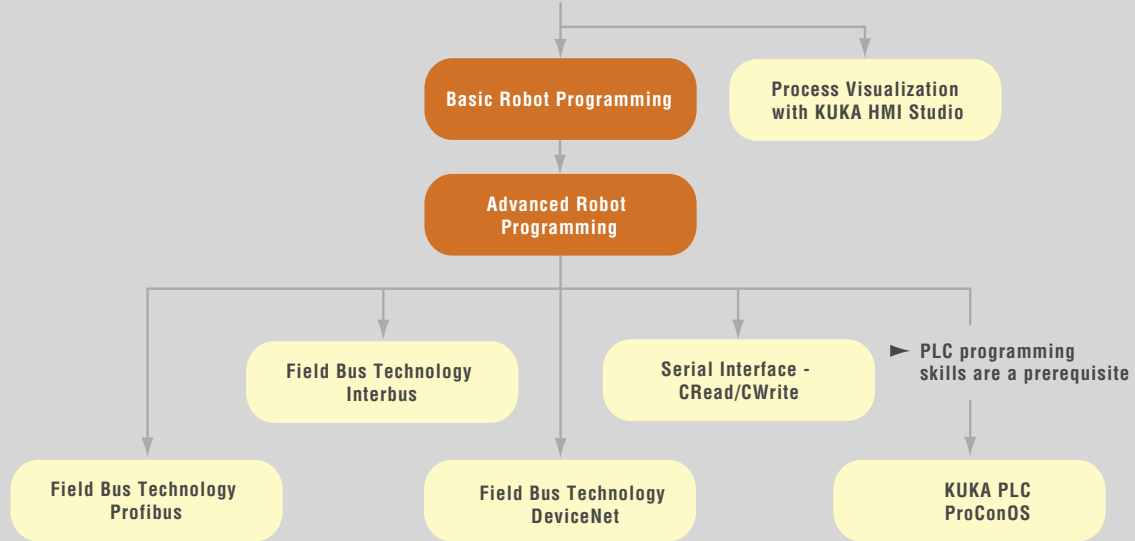
Courses at SHL Automatisierungstechnik AG

## ROBOT SPECIALIST SEMINARS

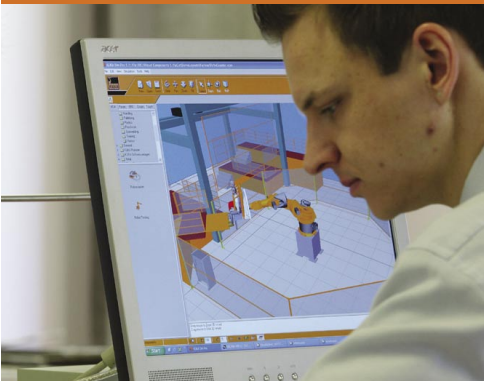


Many tasks in the robotics field require specific technical knowledge. For participants with expert knowledge of robots, KUKA College offers specialist seminars aimed at programming personnel involved in integrating and programming supplementary applications connected with the robot controller. These seminars provide specialist expertise on such topics as communication with other system components, control of complete systems or visualizing production sequences.

► Previous technical knowledge and familiarity with PCs and Windows are helpful!

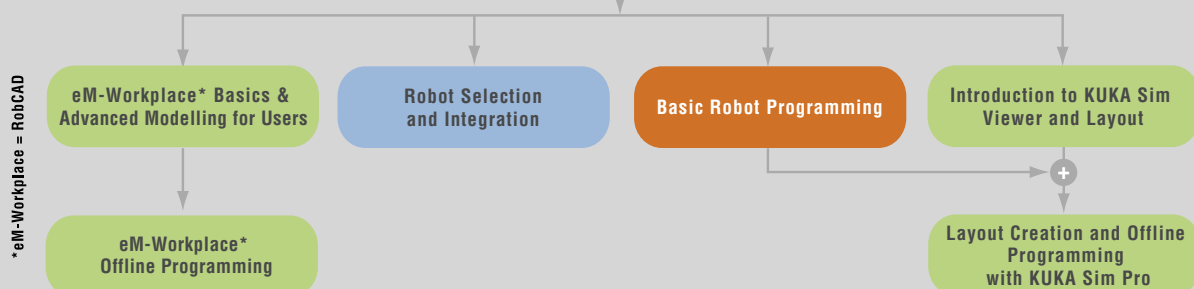


## SEMINARS FOR CELL PLANNERS AND DESIGNERS



Robotic cell planners and designers are responsible for the optimal integration of robots into automation solutions. In order to give such robot experts the necessary qualifications, special seminars provide an overview of KUKA's range of robots and automation equipment and their optimal applications. These seminars show how to select and integrate the most suitable robots. Other important contents are offline programming, layout creation and simulation.

► Previous technical knowledge and familiarity with PCs and Windows are helpful!



## SEMINARS FOR MANAGERS AND SALES PERSONNEL

At KUKA College, managers in Production, Maintenance, Planning, and Design whose subordinates work with KUKA robot systems have an opportunity to gain some personal experience with industrial robots. The seminars for managers and sales personnel provide an overview of the different fields of application in which industrial robots are used. Participants also receive a basic introduction to robotics.



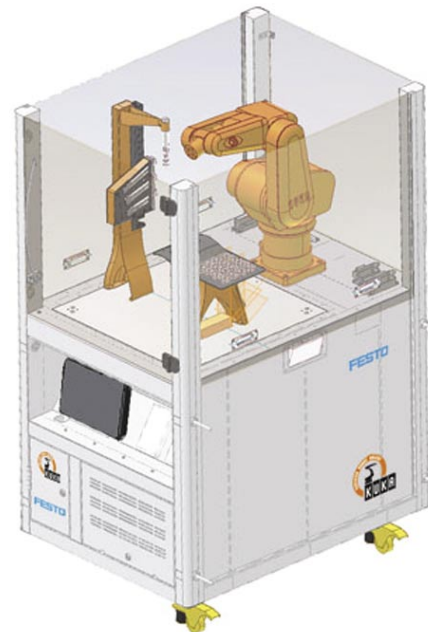
► Previous technical knowledge and familiarity with PCs and Windows are helpful!

Robotics for Sales Personnel

Robotics for Managers

## MOBILE CELL

KUKA College comes to you: "Mobile cells" are available for programming seminars, and are equipped with a robot and the corresponding handling system. It is thus possible to carry out robot training at the user's location which is in no way inferior in terms of quality and quantity to that provided at permanent KUKA College facilities.



### If you need it, it's in our program

Training is a dynamic process. Training concepts have to be adapted continuously to meet changing requirements. That's why ideas based on practical experience are always welcome.

If you have any suggestions or questions about KUKA or its course offerings, please call us on: +49 821 4533-1906. Or e-mail us at: [college@kuka-roboter.de](mailto:college@kuka-roboter.de).

We would be happy to give you detailed information on any aspect of KUKA College.

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