KUKA TRAINING
BY COMPOSITADOUR

*Learn how to control a robot cell
in complete safety*

TRAINING MODULES

M1 - ROBOT OPERATION 1
M2 - ROBOT OPERATION PRO

OBJECTIVES :

- OPERATE A ROBOT CELL IN COMPLIANCE WITH ROBOT SAFETY RULES
- MOVE THE ROBOT MANUALLY IN ALL AVAILABLE COORDINATE SYSTEMS
- RESTART ROBOT PRODUCTION AFTER A PROGRAMME STOP

M1 - ROBOT OPERATION 1

Safety when using a KUKA robot
- Recognising and avoiding hazards when handling a KUKA robot / Overview of safety devices when using KUKA robots

Basic knowledge of how a KUKA robot works
- Overview of the robot system

Move the robot manually
- Clear the robot safely axis by axis / Clear the robot safely in World, Base or Tool marks

Run programmes in manual and automatic modes
- Choosing and selecting the appropriate operating mode / Making blocks coincide / Selecting, starting and running robot programs / Running a program from a PLC / Restarting a program after a fault

Man-machine communication
- Reading and interpreting system messages / Displaying the robot's current position

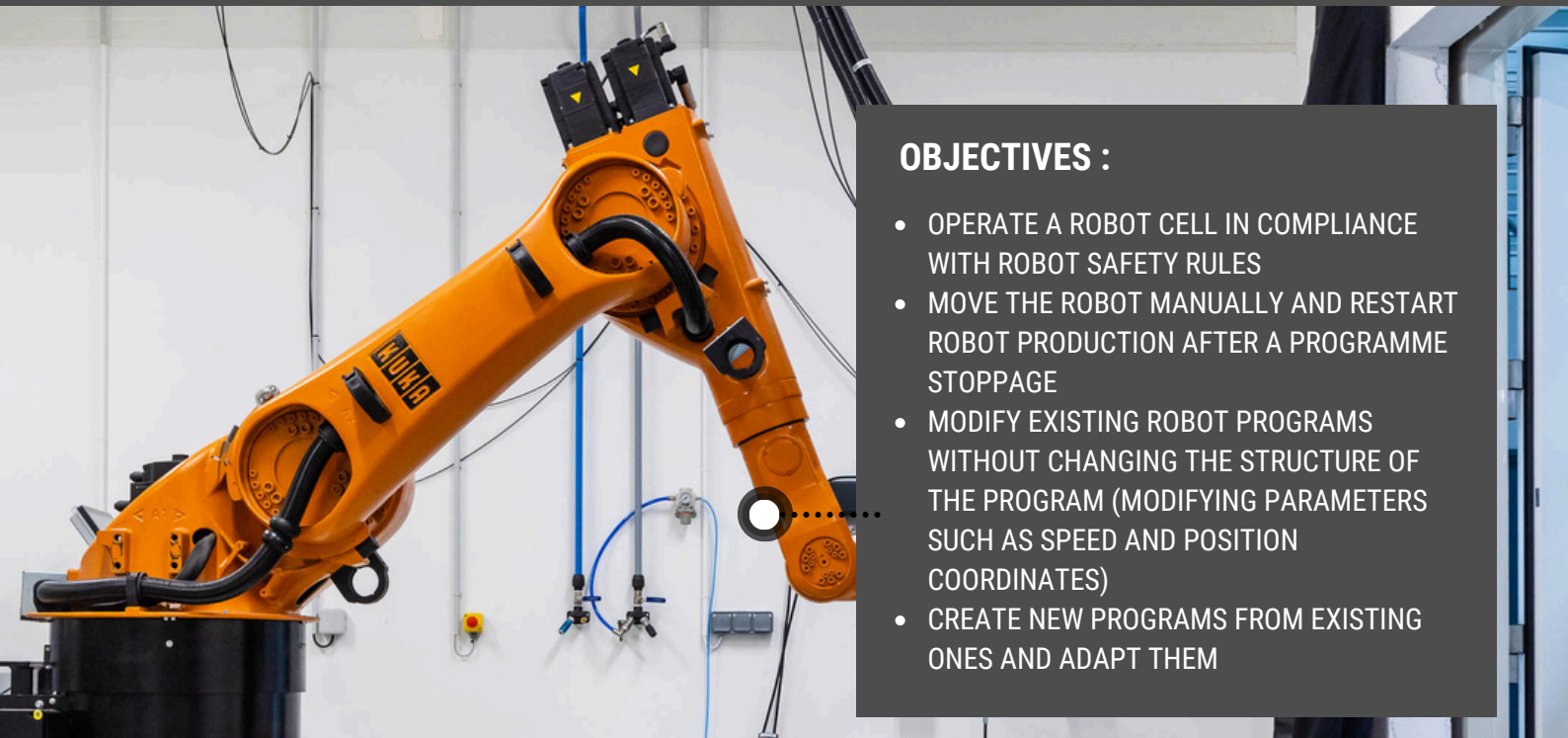**Using the gripper (KUKA.GripperTech)**

PREREQUISITES	**DURATION**	**PUBLIC**
None	2 days	Operators

OBJECTIVES :

- OPERATE A ROBOT CELL IN COMPLIANCE WITH ROBOT SAFETY RULES
- MOVE THE ROBOT MANUALLY AND RESTART ROBOT PRODUCTION AFTER A PROGRAMME STOPPAGE
- MODIFY EXISTING ROBOT PROGRAMS WITHOUT CHANGING THE STRUCTURE OF THE PROGRAM (MODIFYING PARAMETERS SUCH AS SPEED AND POSITION COORDINATES)
- CREATE NEW PROGRAMS FROM EXISTING ONES AND ADAPT THEM

M2 - ROBOT OPERATION PRO

Safety when using KUKA robots
- Recognising and avoiding hazards when using KUKA robots / Overview of safety features when using KUKA robots

Basic knowledge of the structure of a robot system

Moving the robot manually
- Move the robot in axis-by-axis mode / Move the robot in straight-line movements in relation to the robot frame, the tool and the workpiece

Run and process robot programs manually and in Automatic mode
- Select and set the appropriate mode / Perform a COI initialisation run / Select, run and process robot programs / Run a program with a PLC

Human-machine communication
- Display and filter the message table / Call up robot states (input and output signals, timer, flags, counters) / Read and interpret robot control messages / Call up the robot's current position / Display variables and modify values

Using technological software packages
- Using the gripper / Programming gripper instructions with KUKA online forms

Using program files
- Deleting, renaming and duplicating modules / Archiving and restoring programs

Reading structured programs and flowcharts

Adapt and modify robot programs
- Create new move instructions (PTP or path moves) using KUKA online forms / Modify move instructions / Correct and adapt positions

Read and understand logical instructions in existing programs

Principle of calibration and calibration control

PREREQUISITES	**DURATION**	**PUBLIC**
None	4 days	Operators

FOR MORE INFORMATION :

Find out more on the official Kuka website, here are the links to the module descriptions:

Robot Operation 1

Robot Operation PRO

A number of training dates are scheduled the year.

Robot Operation 1	Robot Operation PRO
• 13/03/24 to 15/03/24	• 29/01/24 to 02/02/24
• 25/09/24 to 27/09/24	• 18/03/24 to 22/03/24
	• 30/09/24 to 04/10/24

**The course ends with an end-of-course test.
A certificate is awarded on successful completion of the test.**

**Registration and request for quotation:
+33 1 69 31 66 00 / formation.france@kuka.com**

**Contact the trainer:
+33 5 64 11 11 42 / p.hacala@estia.fr**

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