



# HMI Training Course - B&R Automation Studio Integrated Visualisation (Programmers)

196 TM610

## HMI Training Course - B&R Automation Studio Integrated Visualisation (Programmers): Target Group

This course is intended for B&R Automation users connecting HMI products such as Power Panel and terminal screens to the PLC. It is a course for system designers and programmers.

PLC Programming Software: B&R Automation Studio

## HMI Training Course - B&R Automation Studio Integrated Visualisation (Programmers): (Pre) Knowledge

Students must have completed the B&R Automation Studio Basics course TM210, or have equivalent experience in the package.

They would ideally be familiar with HMI development principles such as tag databases, operator screen functions, and graphic object management to gain the most from this course.

Students must have a strong familiarity with the Windows operating system GUI.

## HMI Training Course - B&R Automation Studio Integrated Visualisation (Programmers): Content

Participants will gain competency in developing visualisation projects to complement their PLC programs using Automation Studio. The course will involve creating an HMI application connecting to a B&R PLC incorporating a variety of graphic objects, addressing variables, layers, dynamic text, language switching, touch elements and keypad controls.



## HMI Training Course - B&R Automation Studio Integrated Visualisation (Programmers): Methods

ATS courses are given by highly qualified trainers, with practical knowledge, in professional ATS training centres or On-Site. Prior to the course an intake conversation can take place to define the participant(s) and the company's requirements. Presentations (theory and examples) as well as practical exercises bring the courses to life. ATS courses are interactive, the trainer will always make sure the training contents link back to your situation.

## HMI Training Course - B&R Automation Studio Integrated Visualisation (Programmers): Specific Curriculum

### Topics

Visual Components is a powerful, versatile tool within Automation Studio for designing dynamic HMI applications that allow operators to clearly and intuitively visualise even the most complex real-life industrial processes. A graphical editor and a rich selection of pre-designed controls open up virtually unlimited design possibilities.

### Lesson 1



- Introduction to Visual Components
- Creating the first visualization application
- Working with the Visual Components editor
- Workspace, visualization structure and help system
- Creating your own visualization application
- Managing variables and data points

**Lesson 2**

- The layering method when designing pages
- Displaying and entering process values
- Creating static and dynamic text
- Language and unit switching
- Touch and keypad control
- Using graphic objects

