

## ANSI-C in the SIMATIC World, Introduction (ST-SIMACE)

---

### Objectives

---

This course shows you the possible applications of C scripts in the SIMATIC WinCC and SIMATIC PCS 7 automation systems and familiarizes you with the fundamentals of the C programming language in the SIMATIC environment. During the course, you will have plenty time for exercises, providing you with the opportunity of amassing significant practical experience and putting your theoretical knowledge to immediate use.

On completion of the course, you will be able to write and understand simple C scripts.

You can expand and reinforce the knowledge acquired here in the ST-SIMACA course. On completion of this course, you will be able to handle character strings in C scripts as used in automation engineering in, for example, WinCC.

For subsequent expansion and reinforcement of your knowledge, we offer the ST-SIMACA course, on completion of which your skills will include the ability to handle character strings in C scripts as used in automation engineering in, for example, WinCC.

### Target Group

---

Programmers  
Commissioning engineers, configuring engineers  
Service personnel  
Maintenance personnel

### Content

---

Using basic data types  
Formulating expressions  
Calling fundamental input/output functions  
Statements  
Setting/resetting individual bits in a WORD variable - Toggling information displays  
Defining and calling simple functions  
Defining and using arrays  
Elementary applications of pointer types  
Typedefs (for WinCC-specific designators)  
Global and local actions in WINCC / PCS7  
Functions in a C script  
Selected WinCC demo examples

### Prerequisites

---

SIMATIC WinCC knowledge according to ST-BWINCCS.

### Type

---

Face-to-face training

### Duration

---

5 days

### Language

---

en