

## Programming with S7 Graph in Tia Portal

### Content

- Basics of GRAPH Programming
- Configuration of the hardware
- Creating GRAPH function blocks
- Structure and representation of sequence chains with GRAPH
- Planning and configuring sequence blocks
- Programming of chain blocks
- Step, transition, branch, jump
- Creating a step chain with GRAPH
- Simultaneous and alternate branching
- Interlocking and monitoring
- Documentation of sequence controls
- Commissioning and troubleshooting with GRAPH
- Load and test step chain program in PLC
- Observation of step chains in GRAPH
- Observing and controlling variables
- Chain control with GRAPH
- Synchronize step chain with process
- Testing and diagnosis
- Input/output parameters of function blocks
- Interlock functions

### Description

In this course you will acquire the ability to successfully program and commission step sequences with S7 GRAPH. Through a series of practical exercises on a plant model, you will deepen your theoretical knowledge and gain hands-on experience. By the end of the course, you will have mastered the creation and expansion of sequence controls and will be able to effectively design and implement complex sequences. Our goal is to equip you with the necessary knowledge and practical skills to confidently use S7 GRAPH and excel in your sequence control projects.

## Target group

Project planners, programmers, commissioning engineers, maintenance engineers.

## Requirements

Basic knowledge of automation technology is desirable.

## Type of course

- Presence Training
- Online Training with Hardware
- Online Training without Hardware

## Course Duration

- One training hour FREE of charge.
- 15 hours in 3-4 days for Presence Training
- 15 hours in 3-4 days for Online Training with Hardware
- 12 hours in 3-4 days for Online Training without Hardware

## Course language

- English language
- German language
- Arabic language

## Price

- Enjoy our ONE FREE TRAINING SESSION
- 200 euros for Presence Training
- 100 euros for Online Training with Hardware
- 50 euros for Online Training without Hardware
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## Payment currency

- Euro
- Dollar
- EGP.

## Dates of the courses

<b>June</b> <ul style="list-style-type: none"><li>- 02.06. - 05.06.2023 (3 p.m. - 8 p.m)</li><li>- 09.06. - 12.06.2023 (3 p.m. - 8 p.m)</li><li>- 16.06. - 19.06.2023 (3 p.m. - 8 p.m)</li><li>- 23.06. - 26.06.2023 (3 p.m. - 8 p.m)</li></ul>	<b>July</b> <ul style="list-style-type: none"><li>- 07.07. - 10.07.2023 (3 p.m. - 8 p.m)</li><li>- 14.07. - 17.07.2023 (3 p.m. - 8 p.m)</li><li>- 21.07. - 24.07.2023 (3 p.m. - 8 p.m)</li><li>- 28.07. - 31.07.2023 (3 p.m. - 8 p.m)</li></ul>
<b>August</b> <ul style="list-style-type: none"><li>- 04.08. - 07.08.2023 (3 p.m. - 8 p.m)</li><li>- 11.08. - 14.08.2023 (3 p.m. - 8 p.m)</li><li>- 18.08. - 21.08.2023 (3 p.m. - 8 p.m)</li><li>- 25.08. - 28.08.2023 (3 p.m. - 8 p.m)</li></ul>	<b>September</b> <ul style="list-style-type: none"><li>- 01.09. - 04.09.2023 (3 p.m. - 8 p.m)</li><li>- 08.09. - 11.09.2023 (3 p.m. - 8 p.m)</li><li>- 15.09. - 18.09.2023 (3 p.m. - 8 p.m)</li><li>- 22.09. - 25.09.2023 (3 p.m. - 8 p.m)</li></ul>
<b>October</b> <ul style="list-style-type: none"><li>- 06.10. - 09.10.2023 (3 p.m. - 8 p.m)</li><li>- 13.10. - 16.10.2023 (3 p.m. - 8 p.m)</li><li>- 20.10. - 23.10.2023 (3 p.m. - 8 p.m)</li><li>- 27.10. - 30.10.2023 (3 p.m. - 8 p.m)</li></ul>	<b>November</b> <ul style="list-style-type: none"><li>- 03.11. - 06.11.2023 (3 p.m. - 8 p.m)</li><li>- 10.11. - 13.11.2023 (3 p.m. - 8 p.m)</li><li>- 17.11. - 20.11.2023 (3 p.m. - 8 p.m)</li><li>- 24.11. - 27.11.2023 (3 p.m. - 8 p.m)</li></ul>
<b>December</b> <ul style="list-style-type: none"><li>- 01.12. - 04.12.2023 (3 p.m. - 8 p.m)</li><li>- 08.12. - 11.12.2023 (3 p.m. - 8 p.m)</li><li>- 15.12. - 18.12.2023 (3 p.m. - 8 p.m)</li><li>- 22.12. - 25.12.2023 (3 p.m. - 8 p.m)</li></ul>	

You can also request other dates by sending an E-mail to:

[info@controbyte.com](mailto:info@controbyte.com)

## Registration for the course

To book a course, you can send us a booking request directly by email with the course title and your desired date. We will process your request as soon as possible and contact you.

E-Mail: [info@controbyte.com](mailto:info@controbyte.com)

Do you have questions or would you like advice on which training is right for you? Call us directly or send us an e-mail. Your personal contact persons will be happy to advise you!

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<https://controbyte.com>