

## S7 Graph / PDIAG / ProAgent Workshop (ST-7GRAPH)

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### Short Description

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This course is aimed at personnel who require a greater understanding of how programs are implemented using the S7GRAPH software using Step7 V5.5, how to use editing tools for making changes and diagnostic features for fault finding. The PDIAG aspect of the course is to demonstrate how further diagnosis can be added onto HMI's in order to make fault finding easier for maintenance personnel.

### Objectives

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On completion of the course the participant will be able to:-  
Understand the justification for using the GRAPH language  
Understand the relationship of sequence operated applications  
Create a basic sequencing program  
Monitor and diagnose faults within a sequencer  
Configure diagnostic information for HMI applications

### Content

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Principles of a sequencer  
Basic elements of a sequencer; steps, branches and transitions  
Use of the graph editor  
Interface to the PLC program  
Permanent instructions  
Interlocks and supervisions  
Parameter sets of the sequencer function block  
Monitoring and modifying in the sequencer  
Control of the sequencer  
Synchronisation  
Event dependant and event triggered actions  
Use of timers and counters in sequencers  
Branches, simultaneous branches and jumps  
Documentation and source files  
Configuration of diagnostic information using PDIAG  
Representation of diagnostic information using ProAgent

### Prerequisites

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The ability to use a MS Windows PC (W7), keyboard and mouse to include opening and closing programs, locating files, copy and paste objects /data (text, etc). Drag and drop files, objects/data (text, etc). Use of menus and multi-menus, manipulation of windows within a multi-window environment. Use of MS Windows Help.  
Attendance on ST-PRO1 or ST-SERV1 and ST-SERV2 courses or a sound working knowledge of the use of Step7 (V5.5). Use and experience with WinCC Flexible would also be an advantage.

### Type

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Face-to-face training

### Duration

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3 days

### Language

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### Fee

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1,660 GBP