

## PT 300 | ELOP II Engineer with HIQuad

### Course Content

#### The HIQuad system family

- Redundancy concepts
- Power supply
- Structure of central modules and subracks
- I/O redundancy
- Central module functions
- Connection to I/O modules
- Communication modules
- Safety concepts for I/O modules
- What to consider when replacing the subracks
- Diagnostic options during operation

#### Procedures in the event of faults

#### ELOP II programming tool

- Essentials of IEC 61131-3 basic standard
  - Data types
  - Variable types
  - Functions
  - Function blocks
- PADT-PES communication
- Structure of projects
- Resource type definition
- Structure of programs
- Programming exercises
- Copying objects
- Testing during the offline simulation
- Code generation
- Archiving and restoration
- Loading and starting PES
- Online functions
- Forcing signals
- Diagnostic and error messages
- Configuring the safety parameters
- Designing and adapting documentation



### Engineering HIQuad systems with ELOP II

The HIMA system family HIQuad (H41q/H51q) is configured and programmed using the ELOP II programming tool. The first part of training presents the HIQuad system family and the usage and operation options associated with it.

The use of ELOP II in all essential areas is discussed in detail during the second half of the course. The participants receive a thorough overview, including programming techniques, project creation, testing and diagnostic options. Safety requirements are also discussed in detail. Practical exercises with HIQuad system projects are used to facilitate learning. Upon successful completion of training, the participants will be able to create projects and use HIQuad systems on-site.

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## Dates in 2016

Date	Location	Country	Language
13.12. – 16.12.2016	Brasschaat*	Belgium	Dutch

\* Acta, Ruiterschool 9

## Participant profile

- Operating staff
- Planning staff
- Commissioning staff

## Participant requirements

- Knowledge of how to work in Windows-based programs
- Knowledge of logic elements (truth table)
- Initial programming experience with programmable logic controllers is an asset

## Theory and practice

The course contains both theoretical and practical components. During practice sessions, a test system (programming system and hardware) is available for every two participants.

## Tailored training

- Actual participant-group projects are considered as programming examples
- Courses are also possible on-site if appropriate premises and technical equipment are available
- Course focus can be tailored to individual groups (content, duration)
- Price upon request

## Further courses on this subject

- Operating HIQuad systems and correcting faults: ELOP II Maintenance with HIQuad (PT 320)
- Focus on communication technologies: HIQuad communication (PT 360)

## Duration

- 4 days,
- from 8:30 am to 4:30 pm

## Number of participants

- Min. number of participants: 4
- Max. number of participants: 8

## Prices 2016

- 2.250,- € per person

## Services

- Paper copies of training documentation
- Electronic back-up of training projects
- Refreshments and lunch

## Registration and contact

General terms and conditions as well as registration at **HIMA Benelux**  
[planning-benelux@hima.com](mailto:planning-benelux@hima.com)  
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