G500 – SAMI STAR
Start-Up, Maintenance and Service

Course Type
Classroom course

Course Duration
The course duration is 3 days.

Course Goal
The goal of this course is to teach students how to start-up, adjust, operate, maintain, troubleshoot and repair SAMI STAR frequency converters.

Student Profile
This course is intended for electricians, technicians and engineers who commission and service SAMI STAR frequency converters.

Prerequisites
- Basic knowledge of electronics
- Basic knowledge of using a computer

Description
This course belongs to a learning path. Please see the accompanying figure of possible learning paths.

Course Objectives
Upon completion of this course, students will be able to:
- Commission and tune SAMI STAR frequency converters
- Trace and correct faults

Main Topics
- Operation principles of AC frequency converters
- Vector and/or scalar control
- Component and board functions
- Reading and interpreting circuit diagrams
- SAMI STAR application software
- Remote test and set-up using PC-based SAMI DMS (Drive Maintenance System) {optional}
- Operation of the local and/or remote test panels (CP1 and/or CP2)
- Signal measurement
- Parameter setting
- Initial converter start-up and commissioning
- Fine-tuning of the converter
- Replacing and adjusting boards and components
- Fault tracing methods
SAMI STAR/ACV700 Learning Paths

- **G500** (3 days)
  - SAMI STAR
  - Start-Up, Maintenance and Service

- **G220** (2 days)
  - ACV700
  - Start-Up, Maintenance and Service

- **G221** (2 days)
  - SAMI STAR/ACV700
  - Preventive Maintenance