M304
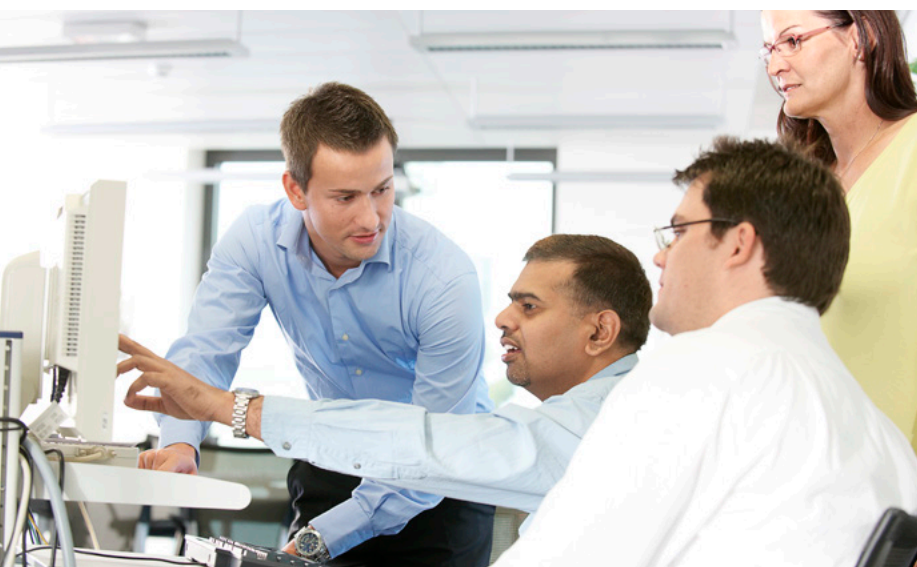# Harmony Configuration Strategies

Learn to program Function Code applications for control strategies common to many industries.

Course type and methods
This is an advanced course. Students will build upon previous control system programming knowledge and implement control strategies to solve process control problems.

Student Profile
This course is targeted to students who are responsible for DCS process control implementation, Function Code logic, maintenance and documentation.

Prerequisites
A basic knowledge of process control and operations concepts and completion of either course M103, WinCAD (Engineering Work Station) or M202, Composer Automation Architect, unless special permission is granted by the instructor. Basic knowledge and usage of applications running on a Windows® operating system is also recommended.

Course objectives
Upon completion of this course the participants will be able to:
• Implement various control strategies such as:
  - Ratio control
  - Cascade control
  - Feedforward control
  - Sequence generation

• Transmit/acquire process control data from other controllers in the same PCU, other PCUs and other loops

Main topics
• Symphony/INFI 90 Open system architecture
• Composer Automation Architect programming and documentation
• Harmony Function Code program application
• Symphony/INFI 90 Open system diagnostics and monitoring

Duration
The duration is 5 days

Course Outline

Day 1	Day 2	Day 3	Day 4	Day 5
• Introductions	• Review: questions and answers	• Review: questions and answers	• Review: questions and answers	• Review: questions and answers
• Symphony overview	• Ratio control application	• Feedforward logic	• Sequence generation	• Miscellaneous tools
• Basic control application	• Cascade control			
• Monitor and trend				