

Training Course Agenda for Advanced Control Concepts

- Objectives** : The purpose of this course is to explore the more advanced control functions available in the Yokogawa controller function blocks. It includes theory and practical information on implementing non linear control and self tuning control, available in the Yokogawa DCS. It also focuses on one of the most common and difficult applications in industry – control with inherent process dead-time.
- Course Duration** : 1 day
- Training Hours** : morning session 9⁰⁰ to 12⁰⁰
afternoon session 13⁰⁰ to 16⁰⁰
- Trainees** : 8 maximum
- Participants** : For engineers involved in implementing difficult or complex control strategies.
- Prerequisite** : Participants must have a good understanding of PID control, and some understanding of the Yokogawa DCS.
- Documentation** : The following manuals will be provided for each of the trainees -
- Yokogawa Control Loop Tuning Manual
 - Yokogawa Advanced Control Functions
- Location** : Please refer to the supplied Orientation sheet for venue details
- Additional Information** : Lunch will be provided.
- Contact Information** : National Training Centre
Yokogawa Australia Pty Ltd
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112 – 118 Talavera Rd,
MACQUARIE PARK NSW 2113
AUSTRALIA
- telephone : +61 2 8870 1100
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- Website : <http://www.yokogawa.com/au/>

Course Content

Unit 1 – PID Controller Functions	
Theoretical concepts Standard PID Controller Functions: <ul style="list-style-type: none">• Gap width control• Error squared control• Deadband Control	Workshop <ul style="list-style-type: none">• Gap width control application• Error squared control application

Unit 2 – Other Control Functions	
Theoretical Concepts Other Controller functions <ul style="list-style-type: none">• PI-Hold Control• Manual Reset Control• Self Tuning Control	Workshop <ul style="list-style-type: none">• Using the self tuning controller• Various methods of controlling a system with dead time