



## Instrumentation Courses

These courses cover installation, maintenance and operation of Yokogawa process instruments. Individual ½ day courses are available that cover one particular instrument. Alternatively, a two day course is available that covers the range of major flow, pressure and temperature transmitters provided by Yokogawa.

The instrumentation covered in these courses are:

### **Flow:**

ADMAG	- Magnetic Flowmeters
YEWFO	- Vortex Flowmeters
ROTAMASS	- Mass Flowmeters
ROTA VA	- VA Flowmeters

### **Pressure:**

DPHARP	- EJA Series Pressure & Differential Pressure Transmitters
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### **Temperature:**

YTA Series Temperature Transmitters



# Training Course Agenda for General Instrumentation Operations and Maintenance

- Objectives** : The course is designed to enable a technician to setup, operate and maintain Yokogawa instrumentation. It provides a general introduction to the process instrumentation available including pressure, flow and temperature.
- Course Duration** : 2 days
- Trainees** : 6 maximum
- Participants** : For technicians involved in operation, setup and maintenance of instrumentation.
- Prerequisite** : Participants should have a general knowledge of process instrumentation.
- Documentation** : The following manuals will be provided for each of the trainees -  
Instruction Manuals of the relevant instrumentation
- Additional Information** : Lunch will be provided.

Please provide names and a short history for each trainee of experience with digital control systems on the attached course enrolment form.

## Course Content

Day	Topic
1	a. Overview of Yokogawa instrumentation b. Principles of Operation c. Selection Criteria d. Installation <ul style="list-style-type: none"> <li>- Hardware installation, setup parameters</li> <li>- Using the Brain Terminal</li> </ul>
2	e. Maintenance <ul style="list-style-type: none"> <li>- Calibration techniques for transmitters</li> <li>- Assembly and disassembly</li> <li>- Troubleshooting</li> </ul>

# Training Course Agenda for Instrumentation

- Objectives** : This course covers the installation, maintenance and operation procedures for Yokogawa instrumentation. The course can be applied to all Yokogawa process instrumentation, including pressure, temperature and flow transmitters.
- Course Duration** : 1/2 day per instrument (3 hours)
- Trainees** : 6 maximum
- Participants** : For instrument technicians involved in the installation or maintenance of instrumentation.
- Prerequisite** : Participants should have some understanding of instrumentation.
- Documentation** : The following manuals will be provided for each of the trainees -  
Instrument Installation, Maintenance and Operations manual
- Additional Information** : Lunch will be provided.  
Please provide names and a short history for each trainee of experience with digital control systems on the attached course enrolment form.

## Course Content

	<b>Topic</b>	<b>Detail</b>
1	Overview of Instrument Principles of Operation Selection Criteria	Description of instrument and range available How the instrument works How to select the best instrument for the application
2	Installation - Hardware Installation - Parameter Setup	Issues to consider when installing the instrument Setting up the configurable parameters for correct operation Using the Brain terminal
3	Maintenance - Equipment required - Zero/Span adjustments - Assembly and Disassembly - Troubleshooting	Equipment required for maintenance Procedures for calibrating the instrument How to replace faulty parts Procedures for fault finding and diagnostics