Tailor Made Training – Control Systems
ControlLogix-based PLC Control System
(All Turbines with an Allen Bradley ControlLogix PLC-based Control System)

Course Objective
To provide delegates with a detailed view of an Allen Bradley ControlLogix Control System, its design, major components, programming methods and operation.

Course Structure
The course is designed to provide the course delegate with an understanding of operation and functioning of the Turbine Control System.
This course is provided in our dedicated Control System lecture room equipped with Allen Bradley ControlLogix control systems and simulators together with state-of-the-art teaching aids. During the course, emphasis is placed on practical exercises to increase the delegate's familiarity with the system. In order to maximize this “hands-on” experience, course numbers are restricted to ensure that one simulator is provided per delegate.

Course Prerequisites
- Prior attendance on one of the gas turbine Operating and Maintenance courses or a sound understanding of how a gas turbine and its auxiliary systems operate is recommended
- P.C. Literacy – Windows NT
- Conversant with industry standard instrumentation

Course Duration and Location
The Lincoln-based course is 8 days, the on-site course is 5 days. For course availability, please contact Lincoln Product Training Department:
+44 1522 583337
+44 1522 583338

Who should attend:
This training course is designed for experienced turbine operators and any technically qualified personnel with knowledge of turbomachinery.
Course Topics

- Environment, Health, Safety
- The Control System Drawings
- **TCM Configuration**: sub-system chassis layout and interfacing (controller, IDS, ECU, vibration monitor, fire & gas, overspeed, watchdog & emergency stop loop)
- Logix Controller Hardware: function, configuration and status indications
- Core Engine Controller (CEC): overview communications configuration, set-point adjustments and data logging/recovery
- RSLogix5000 Programming Software (current version only): I/O configuration, software structure, instructions used by the company (ladder and function block), set-point adjustment, trending, loading/saving software, password protection, forcing I/O points
- **HMI Display**: control mimics, annunciator messages, trending and control options
- **HMI Utilities**: controller set-point adjustment, CEC maintenance terminal and output forcing utility
- Additional Fault Finding Tools: trending, data logging and controller fault finding
- Practical Exercises
- Delegate Assessment