
COURSES OFFERED
PLC Courses

Course Code	Course Name	Pre-requisites & Target Audience	Duration	Fees (excl GST)
INTPLC	Introduction to PLCs and Control Systems. Key Learning Areas: <ol style="list-style-type: none"> 1. Identify and Understand a PLC 2. Identify components of a control system 3. Introduction to Programming Languages and IEC 61131-3 4. Introduction to Ladder Programming 	<ul style="list-style-type: none"> ● Computer Literacy ● Basic Understanding of Electrical Systems and terminologies For Beginners	3 days (21 Hours)	A\$1380/-
SLCMLGX	Basic Programming & Maintenance of Allen Bradley SLC 500 and MicroLogix. Key Learning Areas: <ol style="list-style-type: none"> 1. SLC 500 / MicroLogix Hardware Configuration 2. Troubleshooting and Fault Diagnosis 3. Programming a MicroLogix or SLC 500 using Ladder 4. Creation of Structured Programs Hardware used: SLC 500 & Micrologix	<ul style="list-style-type: none"> ● Computer Literacy ● Basic Understanding of Electrical Systems and terminologies ● Basic knowledge of Ladder Programming desired but not essential For Beginners and Maintenance technicians new to PLC.	3 days (21 Hours)	A\$1500/-
CLGX_B	Basic Programming of Allen Bradley's Control Logix. Key Learning Areas: <ol style="list-style-type: none"> 1. Control Logix Architecture & Hardware Configuration 2. Understanding Fault Codes and Diagnostics. 3. Ladder Programming. 4. Elements of FBD programming 	<ul style="list-style-type: none"> ● Computer Literacy ● Basic Understanding of Electrical Systems and terminologies ● Familiarity with Ladder Programming. For Intermediate & Experienced PLC users	3 days (21 Hours)	A\$1500/-
CLGX_A	Advanced Programming of Allen Bradley Control Logix Key Learning Areas:	<ul style="list-style-type: none"> ● Computer Literacy ● Basic Understanding of Electrical Systems 	3 days (21 Hours)	A\$1500/-

	<ol style="list-style-type: none"> 1. Recap of ControlLogix Architecture 2. Introduction to IEC 61131-3 & Structured Programming 3. Structured Text Programming 4. Introduction to Sequential Function Chart Programming 	<p>and terminologies</p> <ul style="list-style-type: none"> ● Familiar with ControlLogix architecture ● Knowledge of Ladder Programming of Control Logix PLC <p>For Experienced Control Logix Users and Programmers</p>		
S7MAINT	<p>Simatic S7 PLC Maintenance :</p> <p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Introduction to Siemens S7 PLC 2. Troubleshooting & Maintaining S7 PLC 3. Overview of IEC61131-3 programming languages 4. Ladder Programming 5. Basics of STL programming <p>Hardware used: S7-300 & S7-416.</p>	<ul style="list-style-type: none"> ● Computer Literacy ● Understanding of Electrical Systems and terminologies ● Basic PLC programming experience desired but not essential 	3 days (21 Hours)	A\$1500/-
S7PROG	<p>Simatic S7 for Programmers</p> <p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Recap of Siemens S7 PLC 2. Overview of IEC 61131-3 Programming Languages and Structured Programming 3. Programming in SCL (Siemens Control Language – Structured Text) and STL (Statement List) <p>Hardware used: S7-300 & S7-416.</p>	<ul style="list-style-type: none"> ● Prior knowledge of S7 PLC programming in Ladder 	3 days (21 Hours)	A\$1500/-

S7GRAF	<p>Simatic S7 Graf for Programmers</p> <p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Recap of Siemens S7 PLC 2. Overview of IEC 61131-3 and Sequential Function Chart programming 3. S7-Graf Programming combined with SCL and Ladder. 4. Hardware used: S7-300 & S7-416. 	<ul style="list-style-type: none"> • Prior knowledge of S7 PLC programming 	2 days (14 Hours)	A\$1000/-
PCS7	<p>PCS 7 ES Engineering</p> <p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Recap of Siemens S7-400 Controller & PCS 7 architecture 2. Overview of IEC 61131-3 and programming languages 3. S7-CFC programming 4. S7-Graf Programming combined with SCL and Ladder. 5. Building of Plant Database and Multiproject programming <p>Hardware used: S7-416</p>	<ul style="list-style-type: none"> • Prior experience with S7 PLC or WIN_CC preferred 	4 days	A\$2000/-
PCS 7	<p>PCS 7 WINCC Programming</p> <p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Recap of PCS concepts 2. WinCC graphics design and integration with PCS 7 controller database. <p>Hardware used: S7-416 & WIN CC</p>	<ul style="list-style-type: none"> • Prior experience with S7 PLC 	4 days	A\$1800/-

IEC 61131-3 OPEN PLC Programming

Course Code	Course Name	Pre-requisites & Target Audience	Duration	Fees
IEC61131	<p>IEC 61131-3 Programming</p> <p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Introduction to IEC 61131-3 2. Overview of IEC compliant languages and Open PLC 	<ul style="list-style-type: none"> • Computer Literacy • Understanding of Electrical Systems and terminologies • Basic PLC programming experience desired 	3 days (21 Hours)	A\$1500/-

	<ol style="list-style-type: none"> 3. Introduction to IEC 61131-3 software packages 4. Introduction to Structured Programming 5. The Programming package used would be one of the following: <ul style="list-style-type: none"> ○ ISAGraph ○ Codesys ○ 4C Control 		
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Networking

Course Code	Course Name	Pre-requisites & Target Audience	Duration	Fees
INDENET	<p>Ethernet and its Industrial Applications</p> <p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Introduction to Ethernet Standards 2. Identify & Define V4 addressing schemes 3. Hardware components for Ethernet networking 4. Setup an Ethernet Network 5. Ethernet Address and Subnetting 6. Class based and Classless Addressing 7. Static IP and Dynamic IP addressing 8. Industrial Ethernet Protocols 9. Setting up of Router and Routing Tables 10. Setting up Windows 2003 server for DHCP, FTP and Web service 11. V6 addressing scheme 12. Wireless Networking 13. Troubleshooting an Ethernet Network 14. Using Network Tools and Software such as ping etc. <p>Hardware used: Standard PC, S7-416.</p>	<ul style="list-style-type: none"> ● Computer Literacy ● Familiarity with Windows and preferably with PLCs. 	2 days (14 Hours)	A\$950/-
DVNET	<p>DeviceNet and its applications</p> <p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Introduction to DeviceNet & DeviceNet Protocol 	<ul style="list-style-type: none"> ● Familiarity with RSLOGIX 500 or RSLOGIX 5000 software and AllenBradley PLCs 	2 days (14 Hours)	A\$950/-

	<ol style="list-style-type: none"> 2. Hardware components and Troubleshooting 3. Setup and operate a DeviceNet network 			
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SCADA Courses

Course Code	Course Name	Pre-requisites & Target Audience	Duration	Fees
CITECT_M	Citect HMI development for Maintenance Key Learning Areas: <ol style="list-style-type: none"> 1. Setup and configure CiTECT HMI 2. Setup communications with controllers 3. Develop Graphic Pages, Genies, Super Genies 4. Develop Reports, Trends, Alarms & Event Pages 	<ul style="list-style-type: none"> ● Computer Literacy ● Familiarity with Windows and preferably with PLCs. 	3 days (21 Hours)	A\$1500/-
CITECT_P	Citect HMI development for Programmers Key Learning Areas: <ol style="list-style-type: none"> 1. Setup and configure CiTECT HMI 2. Setup communications with controllers 3. Develop Graphic Pages, Genies, Super Genies 4. Develop Reports, Trends, Alarms & Event Pages 5. Coding using VBA and CiCode 	<ul style="list-style-type: none"> ● Computer Literacy ● Familiarity with Windows and preferably with PLCs. ● VB scripting 	4 days (28 Hours)	A\$1600/-
WINCC	WINCC HMI development Key Learning Areas: <ol style="list-style-type: none"> 1. Setup and configure WINCC 2. Setup communications with controllers 3. Develop Graphic Pages 4. Develop Reports, Trends, Alarms & Event Pages 5. Interface with S7 systems 	<ul style="list-style-type: none"> ● Computer Literacy ● Familiarity with Windows and preferably with PLCs. ● VB scripting / C Scripting 	4 days (28 Hours)	A\$1600/-
RSView32	RSView HMI development	<ul style="list-style-type: none"> ● Computer Literacy 	3 days (21)	A\$1500/-

	<p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Setup and configure RSView32 HMI 2. Setup communications with controllers 3. Develop Graphic Pages, Trends, Alarms and Reports 4. Integration with ActiveX components 	<ul style="list-style-type: none"> ● Familiarity with Windows and preferably with PLCs. ● Familiarity with VB programming desired 	Hours)	
RSViewSE	<p>RSView Supervisory Edition HMI development</p> <p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Setup and configure RSView Supervisory Edition HMI 2. Setup communications with controllers 3. Develop Graphic Pages, Trends, Alarms and Reports 4. Configure Factory Talk and RSLINX Enterprise edition. 	<ul style="list-style-type: none"> ● Computer Literacy ● Familiarity with Windows and preferably with PLCs. ● Familiarity with VB programming desired 	3 days (21 Hours)	A\$1500/-
RSViewME	<p>RSView Machine Edition HMI development</p> <p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Setup and configure RSView Machine Edition HMI 2. Setup communications with controllers 3. Develop Graphic Pages, Trends, Alarms and Reports 4. Configure Factory Talk and RSLINX Enterprise edition. 	<ul style="list-style-type: none"> ● Computer Literacy ● Familiarity with Windows and preferably with PLCs. ● Basic knowledge of PLCs and Operator Panels 	2 days (14 Hours)	\$1000/-
GEN32	<p>Genesis 32 HMI development</p> <p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Setup and Operate Genesis HMI 2. Setup controller communication 3. Develop Graphics, Trends, Reports etc 	<ul style="list-style-type: none"> ● Computer Literacy ● Familiarity with Windows and preferably with PLCs. ● Familiarity with VB programming desired 	3 days (21 Hours)	A\$1500/-

Windows Server Administration and Programming Languages

Course Code	Course Name	Pre-requisites & Target Audience	Duration	Fees
WINSRVR	<p>Windows 2003 Server Administration</p> <p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Features of Windows 2003 server 2. Setup and Configure Windows 2003 server as <ul style="list-style-type: none"> ○ File & Application Server ○ Domain Controller ○ Mail Server ○ FTP srver ○ Web Server ○ DHCP server ○ Router 3. Setting of up Domain and Active Directory 4. Server Administration 	<ul style="list-style-type: none"> ● Computer Literacy ● Familiarity with Windows 	2 days (14 Hours)	\$1060/-
VB6	<p>Visual Basic 6</p> <p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Introduction to VB6 2. Development of Event based programming 3. Development of GUI 4. Connecting with Databases 5. Develop ActiveX controls 	<ul style="list-style-type: none"> ● Computer Literacy ● Familiarity with Windows and some computer language 	3 days (21 Hours)	A\$1500/-
VB.NET	<p>Visual Basic Dot NET</p> <p>Key Learning Areas:</p> <ol style="list-style-type: none"> 1. Understand DOT NET framework and differences with VB6 2. Introduction to Object based programming 3. Develop GUI and Controls 4. Interaction with Databases 5. Upgrading VB6 programs to DOT Net. 6. Interfacing requirement for OPC based systems. 	<ul style="list-style-type: none"> ● Computer Literacy ● Familiarity with Windows and some computer language preferably Visual Basic 6 	4 days (28 Hours)	A\$1800/-

Note:

1. Courses are held at our location or at Customer Site.
2. Typical course timings are from 9 A.M to 5 PM
3. We can also arrange for custom made training such as evening classes from 4-30 PM to 9-30PM or on Saturdays.