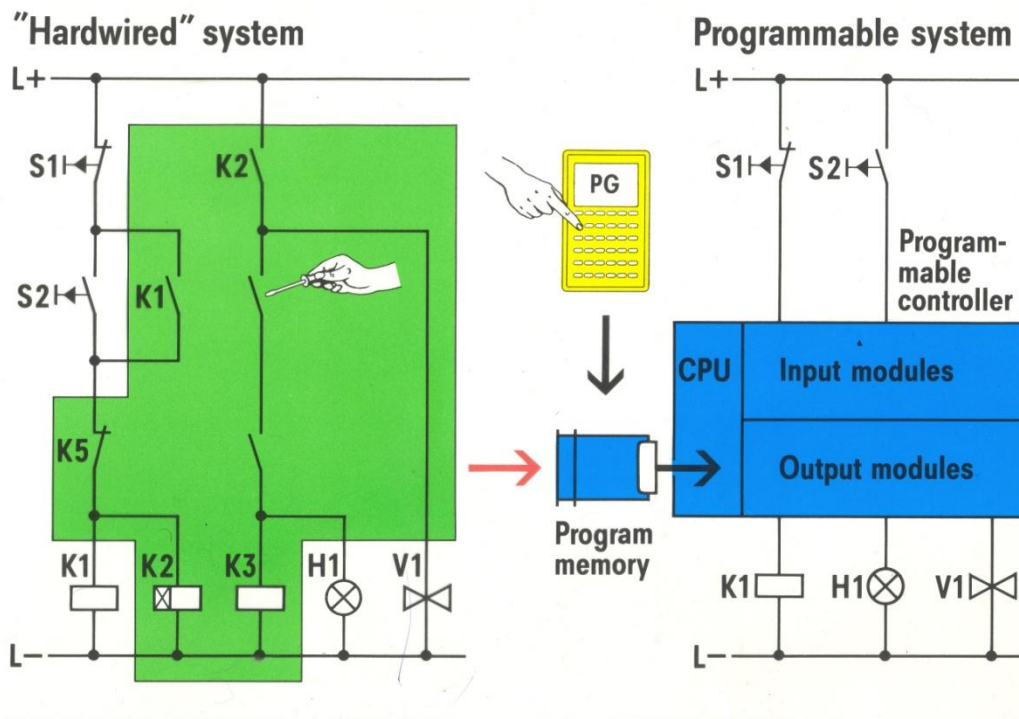


Training Programme

On

PLC Programming & Application



Introduction

Sophistication & Complexity in the Cement industries as well as process plants have necessitated new technology for automation. Today microprocessor based Programmable Logic Controller (PLC) has virtually replaced the conventional hard-wired relay logic control systems. New generation PLC are capable of handling analog signals and their processing, which includes PID and other complex applications.

Realizing the increasing use and dependence of practically every type of industry on PLC's it is felt that the shop floor engineers and technician working in Cement and other similar process industries should be adequately knowledgeable and trained in handling PLC based systems.

Keeping this in view CRISP has come up with module on Siemens S7 300/ S7 400 System to impart practical training on PLC. It will be useful to understand its programming and interfacing with various units in Cement plant i.e. Bag filter, Bucket elevator, Belt conveyor, SPRS Controller etc.it will help Engineers to understand Programming and Technicians to understand its wiring and healthy start conditions of machineries using PLC.Few inputs on trouble shooting will help them to maintain PLC systems. By doing this course efficiency of Maintenance Technicians and Engineers will get improve, which ultimately benefits organization in terms of productivity and person in terms of career growth.

So far CRISP has imparted basic and advance training on PLC to more than 800 participants in various industries. The training programmers conducted in Cement Plant, Cable Plant., Automobile plant, Steel Plant, Tyre Plant were highly appreciated by the participants.

IPCL Vadodara, IPCL Dahej Eicher Motors Pithampur, Eicher Motors Mandideep, J.K. Tyre Banmore, Cadburys Malanpur, SRF Kashipur,SRF Bhiwadi, Essar Steel Hajira, JSPL Raigada, Adani Port Gujrat,Vedanta Jharsuguda are few names for which CRISP has successfully conducted such programmes many times.

METHODOLOGY

The programme consists of a mix of lectures, demonstrations & hands-on practice.Our centre at Maihar have 2 Trainer kits on S7 PLC along with simulator panel, 8 PC's and other accessories.Participants will be provided copy of exercise sets ,writing pad , folder ,pen and Course Material. They will also be provided Certificate of competency on successful completion of Training.

COURSE CONTENTS

- ❖ Introduction to PLC
- ❖ Need & advantage of using PLC
- ❖ PLC Hardware Structure
- ❖ Parameters for PLC Selection
- ❖ PLC Installation and I/O Wiring
- ❖ Memory Organization and I/O Addressing
- ❖ PLC Operating Principles and Programming Methods
- ❖ Basic Logic Operations
- ❖ Comparison and Arithmetic Operations

- ❖ Flags Timers and counters
- ❖ Linear Programming
- ❖ Data Handling and Word Logic Operations
- ❖ Use of Standard Functions
- ❖ Analog Programming with FC 105 and FC 106

DURATION & TIMING

3 working days (02nd - 04th June 2014); Timings: 10:00 AM to 5:00 PM

TRAINING VENUE

HOTEL AKRITI

**Katni Road N.H.-7, Opp. Barat Ghar
MAIHAR Distt. Satna (M.P.)**

Contact No.: 0755-2661401, 4223702, 09425170188; Email:rssharma@crispindia.com

BATCH SIZE

The course enrollment is limited to 15 participants on first come first serve basis.

COURSE FEE

Rs. 8000/- per participant (Non-Residential)

(Course fee includes tea, working lunch, course material & service tax)

Mode of Payment

Participant may deposit course fees in following bank in cash:

Name of A/C Holder: CRISP Society

ICICI A/C Number: 028301000901

Branch Name: BHEL

Branch Code: 000283

IFSC Code: ICIC0000283 (6th Character is zero)

MICR Code: 462229003

City: Bhopal

After transfer/deposit in ICICI bank account participant should collect transaction ID and email it to course coordinator.

Fee may also be deposited on-line through CRISP website (www.crispindia.com) OR by DD in favor of 'CRISP Society' Bhopal

About CRISP

CRISP is an autonomous organization of the State Govt. of M.P. established under Indo-German Co-operation agreement for providing training (for Industrial personnel, Faculties, Supporting Staff, Students, etc.) technical problem solving consultancy and research. Other training programmes offered at CRISP are :

Hydraulics & Pneumatics	VLSI & Embedded System	PLC
Mechanical Maintenance	Power Electronics – AC/DC Drive	AutoCAD
Car Mechatronics	Behavioural Science & Mgmt.	CAD/CAM
Multimedia	Handicraft & Fashion Designing	CNC Technology
CISCO Networking	IT - .Net, Java, C++	PC Repair & Maint.
	Library Automation	

Besides above, we design need based customized training programmes & run these for Industrial clients.

Some of our Esteemed Clients

P&G	Eicher	ESSAR Steel
SRF	Suzlon	FAG Precision
HZL	Hindalco	GKN Drive Shafts
HEG	L&T Case	Mahindra & Mahindra
IPCL	Tata Motors	J.K. Lakshmi Cement
BHEL	Jindal Steel & Power	Vedanta Aluminium Ltd.
TELCON	Nuclear Fuel Complex	NHPC/NHDC (CEA Approved)

Course Co-ordinator

Mr. R.S.Sharma

Manager (Elect&Elex)

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Manager (Marketing)

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ISO 9001:2008

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