

## About CRISP

CRISP is established under Indo-German Cooperation agreement as an autonomous organisation of the Dept. of Technical Education and Skill Development, Govt. of M.P.

CRISP provides technical training and consultancy services for Industry Personnel, Government Officers, Faculties of academic and teaching institutions, Students and Jobseekers. CRISP is equipped with the state-of-the-art equipment and technology, latest software, qualified, trained and experienced trainers in the relevant fields.

CRISP has its head office in Bhopal and training centres at several national and international locations.

### Other training programmes in Electrical and Electronics offered at CRISP are :

- MATLAB
- WinCC SCADA
- RS View32 SCADA
- PLC Networking
- Industrial Automation
- Fiber Optic Networking
- Embedded System Design
- Field Instrumentation and Control
- PLC Programming and Application
- Power Electronics and Industrial Drives
- Electrical Control and Relay Logic Application



## Patron Clients of CRISP



### Contact :

**Course Co-ordinator**  
**Mr. Piyush Jain**

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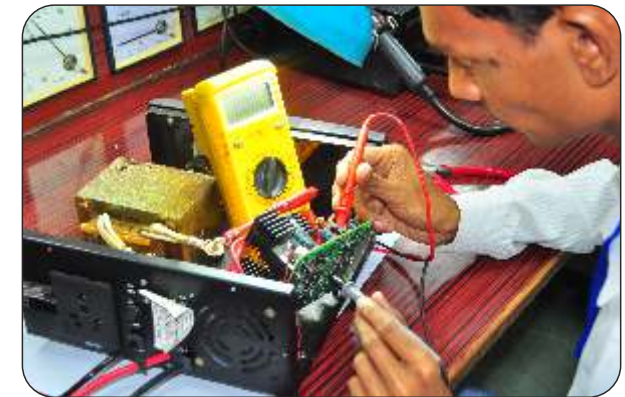
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## Centre for Research and Industrial Staff Performance

(Established under Indo-German Technical Co-operation)  
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# ELECTRONICS MAINTENANCE



...unleashing the full potential of men & machines

## ELECTRONICS MAINTENANCE



### Introduction of Course

Modernisation has led to the acquisition of sophisticated electronic equipment. To derive maximum potential from these equipment it is necessary to keep them fully operational. Professionals are expected to be competent not only in the use of these equipment, but should also be able to maintain them properly by attending to minor faults and troubleshooting the faulty equipment.

CRISP has set up facilities to impart training in this area. After completing this course, the participants will be able to handle maintenance jobs with greater confidence.

### Course Contents

- Test and measuring instruments - Analog and Digital Multimeters, Oscilloscope, Function generator, LCR meter, Digital Storage Oscilloscope, IC testers
- Identification and testing of electronic components - resistors, preset, potentiometer, capacitors, trimmer, coil, transformer, fuses, diodes, zeners, transistors, IGBT, SCR, triac, digital and analog ICs
- Assembly and testing of basic electronic circuits (on breadboard and general purpose PCB using soldering)
- Testing and troubleshooting of regulated and switch mode power supplies
- Assembly and testing of Op-Amp/ Digital Electronic circuits
- Interpretation of analog and digital electronic circuits used in industrial equipment
- Soldering and desoldering of SMD components

- Introduction to Electronic design and simulation software
- Safety precautions in handling Electronic circuits

### Methodology

The programme consists of a mix of :

- Lectures and presentations
- Demonstrations
- Interactive discussions
- Hands-on practice

### Pre-requisite

- Industry personnel with relevant experience
- Passouts or students pursuing Degree/ Diploma in Electronics/ Electrical/ Instrumentation Engineering or equivalent

### Duration

**Full time:** 5 working days (7 hours/day)

**Part time:** 3 weeks (15 working days, 2 hours/day)

### Course Fee

Kindly refer to our training calendar at [www.crispindia.com](http://www.crispindia.com) or can be obtained from CRISP counselling desk

### Mode of Payment

Cash / Online/ Debit/ Credit Card