

## 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 Information Technology offered at CRISP are :

- Web Designing
- Computer Networking
- Cloud Computing Associates
- JAVA (J2SE)
- .Net Technology
- PHP Programming
- Oracle (OCA)
- Tally
- MS Office
- CISCO IT Essential (PCRM and Networking)
- CCNA (Routing and Switching)
- CCNA Security
- CCNP Route



## Patron Clients of CRISP



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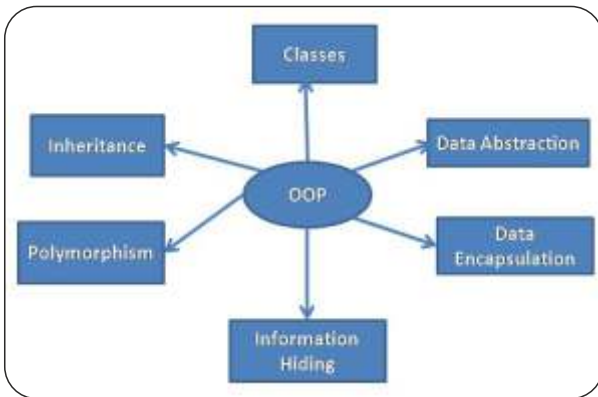
**CRISP**  
ISO 9001 : 2008

# PROGRAMMING CONCEPTS OF C & C++



...unleashing the full potential of men & machines

## PROGRAMMING CONCEPTS OF C & C++



### Introduction of Course

This course on Programming Concepts of C & C++ is designed to make the participants understand the basic concepts of programming and enhance their programming skills for developing real world applications.

C is a powerful and most widely used programming language for developing compilers, interpreters and small applications. Other programming languages being used today, have been derived directly or indirectly from C. C++ is a general purpose Object Oriented Programming (OOPs) Technique for developing high-performance applications which include writing operating systems and their subsystems, developing graphics, games and animation.

The contents of this course will be helpful in developing the programming skills of beginners as well as those who wish to attain competence and be well versed in the software application development field.

### Course Contents

- **Fundamental**  
Procedure Programming  
Object Oriented Programming
- **Programming in "C"**  
Programming techniques in C  
Variables and Constants  
Data Types and Operators in C  
Conditional Operators and Statements  
Logical Statements and Looping  
Arrays and Strings  
Functions  
Scope of Variables  
Structures and Unions
- **Concepts of Object Oriented Programming**

- **Programming in "C++"**  
Using Classes and Objects  
Constructors and Destructors  
Function and Operator Overloading.  
Inheritance.  
Polymorphism.  
Virtual Function
- **Advanced Topics**  
File Handling in C and C++.  
Creating Header Files.  
Introduction of Graphics Programming in C.

### Methodology

The programme consists of a mix of :

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

### Pre-requisite

- Industry personnel with relevant experience.
- Graduates or students pursuing 10+2/ Degree/ Diploma in any stream
- Working knowledge of Computer

### Duration

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

**Part time** : Four weeks (20 working days, 2 hrs./ 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