

## About CRISP

CRISP is established under the Indo-German Technical Cooperation agreement as an autonomous organization of the Govt. of Madhya Pradesh in India for providing technical training and consultancy services for industry personnel, government officers, faculties, jobseekers and international candidates. CRISP is equipped with the state-of-the-art equipment & technology, latest software and qualified, trained & experienced trainers in the relevant fields. Its Head Office is located at Bhopal, in India.

CRISP has set up an extension centre at Addis Ababa to enhance its outreach and train Ethiopian technocrats.



**CRISP ETHIOPIA CENTRE**

## Other Training Programmes offered

- Java (J2SE)
- CAD / CAM
- Industrial Hydraulics
- Industrial Pneumatics
- Mechanical Maintenance
- Power Electronics & Drives
- PLC Programming & Application
- CCNA (Routing and Switching)
- Oracle Database (SQL and PL/SQL)
- Oracle Database (SQL and Administration)
- Electrical Control & Relay Logic Application
- Multimedia Presentation Development using Powerpoint

### Contact :

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#### Centre Manager

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## Centre for Research and Industrial Staff Performance (CRISP)

### Ethiopia Centre

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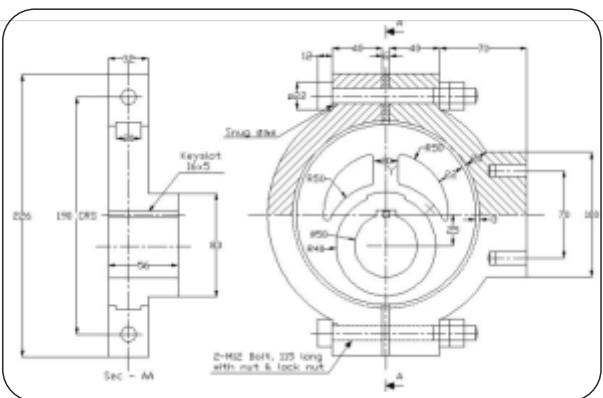
**CRISP**  
ISO 9001 : 2008

## AutoCAD



**...unleashing the full potential of men & machines**

## AutoCAD



## Introduction of Course

AutoCAD is a Computer Aided Drafting (CAD) program which is being used to create all kinds of engineering drawings. This course provides the trainees with the knowledge and practice on the AutoCAD commands and computer-aided-drafting concepts to draw, design, and draft a engineering drawing. Emphasis is placed on efficient and accurate drawing techniques, incorporating the features, commands, and techniques for creating, editing, and printing 2D production drawings. CRISP centre Ethiopia offers a well designed training program for engineers, architects, draftsmen, designers, advertisers or anyone interested in acquiring skills in AutoCAD .

## Course Contents

### AutoCAD Basic

- Introducing to CAD and AutoCAD application
- User interface setting and preferences with AutoCAD, Coordinate System
- Creating Basic Geometry, using draw and modify command
- Working with Poly-lines, editing Poly-lines
- Edit Geometry, using modify command
- Arrays of Objects- rectangular, polar array
- Working with drawing aids, using Hatch Pattern, change Line types, weight and color
- Adding/ Editing dimension and text to drawings
- Basic working and information of layers
- Drawing inquiry- area, measurement, ID point and distance
- Editing commands, dividing, measuring
- Creating a symbol, blocks. Inserting blocks and external references
- Creating and using templates and data exchange
- Printing and plotting

## AutoCAD Advanced

- Working in 3D space, Wireframe models, surfaces, setting elevation and thickness
- Specifying 3D coordinates, defining a UCS in 3D space and viewing objects in 3D space
- Solid Primitives, extrude, revolve, solid edit, section, constructing a composite solid
- Creating shaded images and rendering 3D objects
- Material and material selection, mass property calculations
- Creating PDF/ BMP/ TGA/ TIFF file
- Customizing of command and toolbar
- Introduction to Auto Lisp programming

## 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/ TVET/ Mechanical/ Production/ Automobile Engineering or equivalent.

## Duration

60 Hrs.

## Course Fee & Mode of payment

Please contact Marketing Executive/ Centre Manager