



• TRAINABILITY • EMPLOYABILITY • PRESENT-ABILITY



TRANSFORMING LIVES THROUGH  
COMPUTER AIDED DESIGNING/  
COMPUTER AIDED MANUFACTURING/  
COMPUTER AIDED ENGINEERING  
PROGRAMS IN CIVIL/ARCHITECTURE/  
ELECTRICAL STREAM



## CADD CENTRE UGANDA

An initiative of CYBER SCHOOL, Uganda and CADD Centre, India offers industry focused programs designed to reflect Ugandan and global market trends. We are poised to work with our corporate partners to develop programs structured with an international perspective in mind. The CADD Centre offers an unmatched portfolio of professional qualifications in engineering and related fields as well as innovative certification programs at different levels with the flexibility to tailor one's studies to one's own career aspirations.

Our collaboration is another step with augmentation and nurture scientific and technological coordination between Uganda and India. The aim is to provide education within the framework of Centre of Excellence in ICT (CETIC), a world class professional skills in various fields.

The prime objective is to provide students the three most important aspects of Career Building-

◆ **Trainability**

◆ **Employability**

◆ **Present-ability**

## Short Term Courses at a Glance

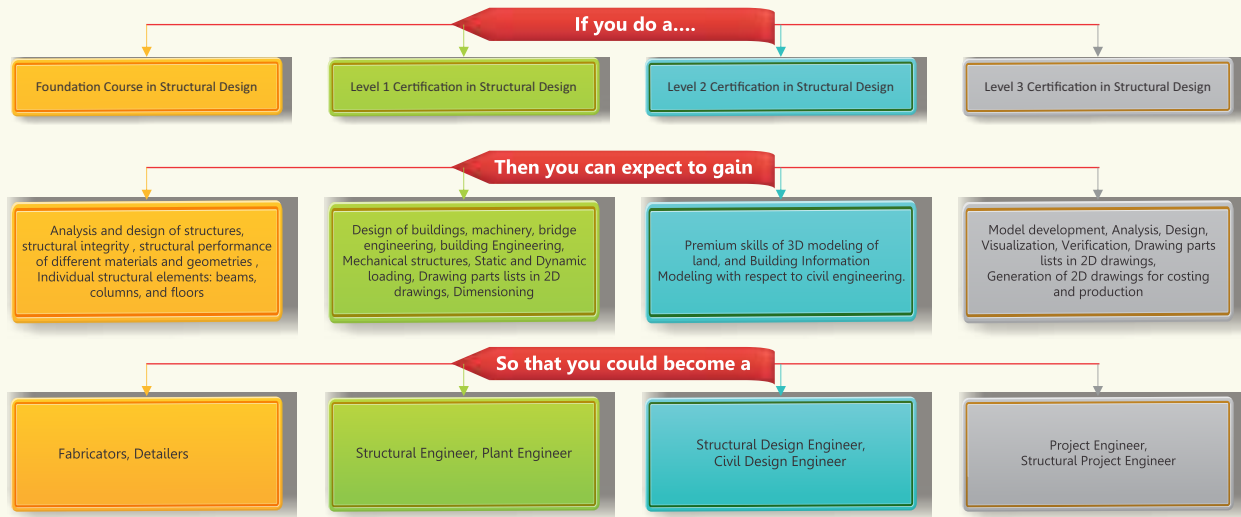
PROGRAM CODE	PROGRAM NAME	SOFTWARE USED	DURATION (HRS)
IF1	Foundation Course in AutoCAD 2D	AutoCAD 2D	80
<b>CIVIL STREAM</b>			
IF7	Foundation Course in AutoCAD-3D	AutoCAD 3D	40
IF8	Foundation Course in Revit	Revit	120
IF9	Foundation Course in STADD PRO	STADD Pro	80
<b>ARCHITECTURE STREAM</b>			
IF10	Foundation Course in 3DS Max for Engineers	3DS Max	80
IF11	Foundation Course in ArchiCAD	ArchiCAD	80
<b>PROJECT MANAGEMENT</b>			
IF12	Foundation Course in PPM Concepts	Project Planning and Management	24
IF13	Foundation Course in Microsoft Project	Microsoft Project	40
<b>MECHANICAL STREAM</b>			
IF2	Foundation Course in Solid Works	Solidworks	80
IF3	Foundation Course in Catia	Catia	80
IF4	Foundation Course in NX-CAD	NX- CAD	80
IF5	Foundation Course in Ansys	Ansys	80
IF6	Foundation Course in NX CAM	NX CAM	40

## Certificate Courses at a Glance

PROGRAM CODE	PROGRAM NAME	SOFTWARE USED	DURATION (HRS)
<b>ELECTRICAL STREAM</b>			
EID1	Level 1 Certification in Electrical CAD	AutoCAD 2D + Electrical CAD	120
<b>CIVIL STREAM</b>			
CID1	Level 1 Certification in Civil CAD	AutoCAD 2D + STADD .Pro	120
CID2	Level 1 Certification in AutoCAD	AutoCAD 2D + AutoCAD 3D	120
CIP1	Level 2 Certification-1 in Structural Design	AutoCAD 2D + AutoCAD 3D+ Revit	220
CIP2	Level 2 Certification-2 in Structural Design	AutoCAD 2D +3D+ STADD PRO	220
CMD1	Level 3 Certification in Structural Analysis and Design	AutoCAD 2D + AutoCAD 3D+ Revit + STADD PRO	264
<b>ARCHITECTURE</b>			
AID1	Level 1 Certification -1 in Architectural CADD	AutoCAD 2D + 3DS Max	160
AID2	Level 1 Certification -2 in Architectural	CADD AutoCAD 2D + Revit	200
AIP1	Level 2 Certification in Architectural CADD	AutoCAD 2D + 3DS Max + PPM +MSP	240

## Roadmap to career with CADD Centre - Structural Design

**Congratulations!** By expressing interest in our courses you have taken a vital step towards your dream career. CADD Centre with its expertise and resources is the ideal place to improve your design skills. We have designed this course architecture to give you a quick and easy understanding of the prospects and opportunities offered to you by our foundation, diploma, professional and masters' courses in your desired field of Structural Design.

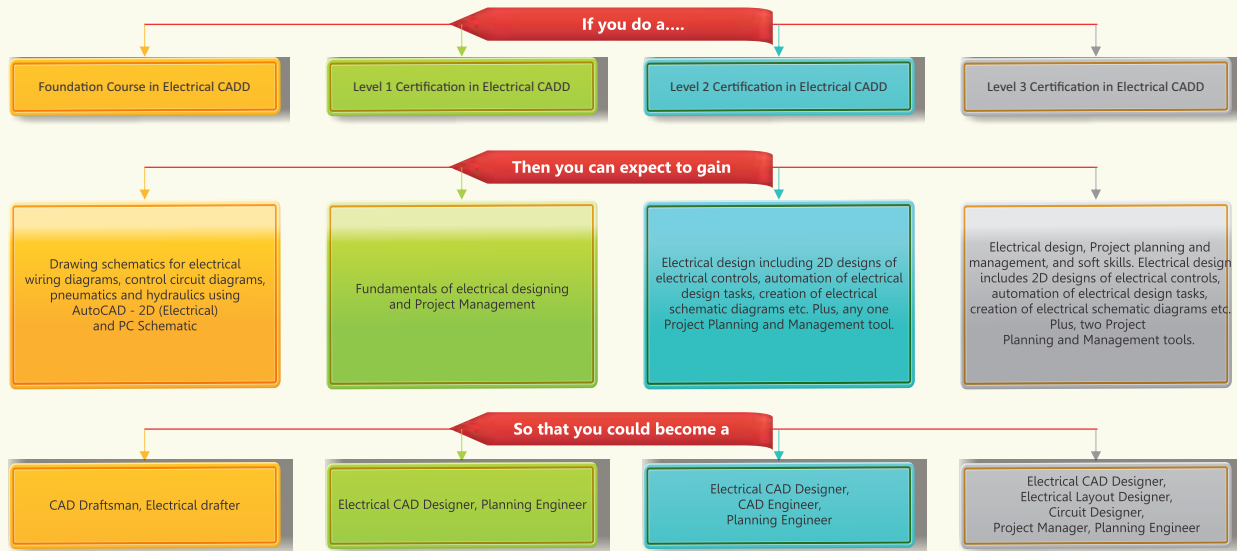


Moreover, these are the software products you would learn and master:

AutoCAD, Civil 3D, STAAD.Pro, Ansys Civil, PPM concepts, Microsoft Office Project and Primavera

## Roadmap to career with CADD Centre - Electrical CADD

**Congratulations!** By expressing interest in our courses you have taken a vital step towards your dream career. CADD Centre with its expertise and resources is the ideal place to improve your design skills. We have designed this course architecture to give you a quick and easy understanding of the prospects and opportunities offered to you by our foundation, diploma, professional and masters' courses in your desired field of Electrical CADD.

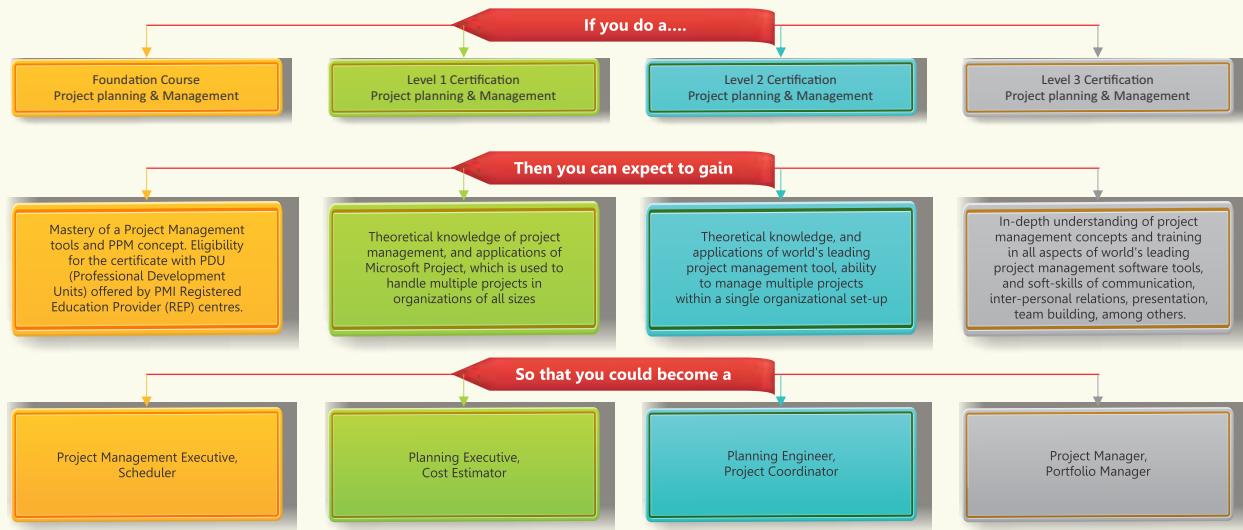


**Moreover, these are the software products you would learn and master:**

AutoCAD, PC Schematic, PPM Concepts, Microsoft Office Project and Primavera

## Roadmap to career with CADD Centre - Project Management

**Congratulations!** By expressing interest in our courses you have taken a vital step towards your dream career. CADD Centre with its expertise and resources is the ideal place to improve your design skills. We have designed this course architecture to give you a quick and easy understanding of the prospects and opportunities offered to you by our foundation, diploma, professional and masters' courses in your desired field of Project Management.



Moreover, these are the software products you would learn and master:

PPM Concepts (Theory), Microsoft Office Project, and Primavera

## Vision

### Vision

To create a niche for itself in quality education in the field of **CAD/CAM/CAE** and foster **Cameroonian-Indian** education alliances.

## Mission

### Mission

To provide high quality professional and technical education to the **students and professionals of Cameroon**

### Our Commitment

- ◆ **Generating adequate employment**
- ◆ **Equipping the young generation of Cameroonians with advance technical skills and expertise.**





## **Programs at a Glance**

### **Foundation Program**

This is the basic, entry level program offered by CADD Centre Uganda. This is best suited for students and graduates to have a clear understanding of CAD tools. This is the foundation on which all the vertical courses are built. This program is offered by all the centres in the CADD Centre Uganda training network.

### **Level 1 Certification**

CADD Centre Uganda's Level 1 Certifications are best suited for the fresh diploma and engineering students. This program gives the basic understanding and facilitates participants to make designs comfortably.

### **Level 2 Certification**

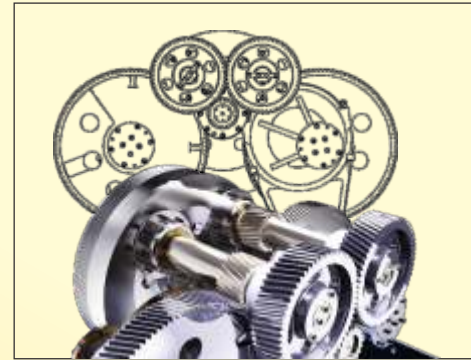
CADD Centre Uganda's Level 2 Certifications on CAD/CAM/CAE is suitable for engineers and experienced diploma engineers. This program will help engineers to improve the productivity skills and career growth. Participants will benefit greatly from this program and understand the latest technologies.

### **Level 3 Certification**

CADD Centre Uganda's Level 3 Certifications is the start to end, comprehensive program on CAD/CAM/CAE suitable for engineers who wish to build a career in core engineering profession. It is certain that engineers will get an employment or career growth after effective completion of this program.

# Be a Qualified Professional in Drafting and Detailing

Draftsmen are design professionals that use computer-aided design (CAD) software for drafting technical drawings used in the production and construction of complex objects and structures. The technical drawings AutoCAD drafters create are used in architecture, engineering, aerospace and just about any discipline where something is being designed and built. The leading software for 2D drawings offered by Auto Desk is AutoCAD 2D.



## AutoCAD 2D - Course content

- ◆ Introduction
- ◆ Display Management
- ◆ Symbol Creation Using Block
- ◆ Annotations and Dimensions
- ◆ File Management
- ◆ Layer Management
- ◆ BOM/Joinery Details Creation
- ◆ Layout Management
- ◆ Orthographic Drawings
- ◆ Selection Methods
- ◆ Isometric Drawings
- ◆ Publish and Plot
- ◆ View Management
- ◆ Parametric Drawings
- ◆ Perspective Drawings

**Courseware Issued:** • Reference Guide • Project Workbook

**Duration:** 40 Hrs.

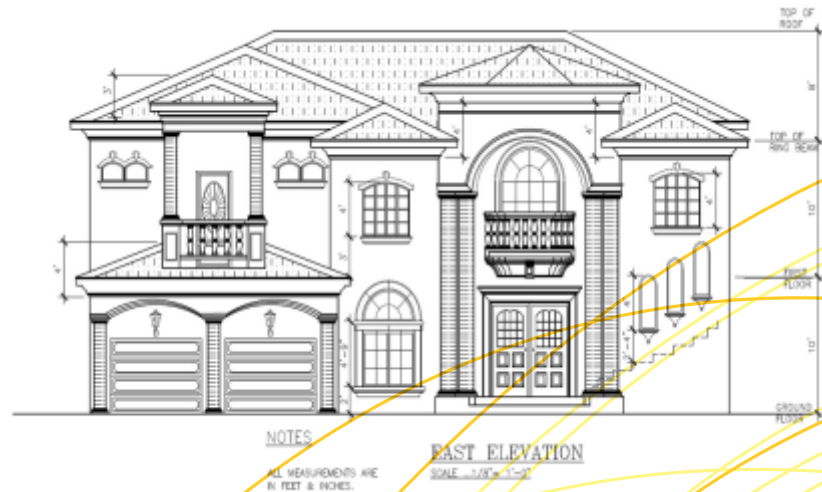
## Career Scope

### Prospective Job Profiles

- ◆ CAD Draftsman
- ◆ CAD Technicians
- ◆ CAD Modeler
- ◆ CAD Design Trainee
- ◆ Design Executive

### Relevant Industries

- ◆ Engineering Consulting
- ◆ Architecture
- ◆ Manufacturing
- ◆ Construction
- ◆ Oil and Gas



# Be a Qualified Professional in 3D Modeling

Modelers are the design professionals that use 3D modeling software to produce 3D models. AutoCAD 3D is design and documentation solution that supports Building Information Modeling (BIM) software. Using AutoCAD 3D, infrastructure professionals can better understand project performance, maintain more consistent data and processes and respond faster to change.

## AutoCAD 3D - Course Content

- ◆ 3D Modeling concepts in AutoCAD
- ◆ 3D Co-ordinate Systems
- ◆ Understanding and usage of viewpoint and UCS
- ◆ Wireframe Modeling & Editing
- ◆ Solid Modeling & Editing
- ◆ Mesh Modeling & Editing
- ◆ Surface Modeling & Editing
- ◆ Create & Manage 2D Views from 3D Models
- ◆ Materials, Lights & Rendering
- ◆ Working with Images
- ◆ Import & Export



**Courseware Issued:** • AutoCAD 3D Reference Guide • Project Work Book

**Duration:** 40 Hrs.

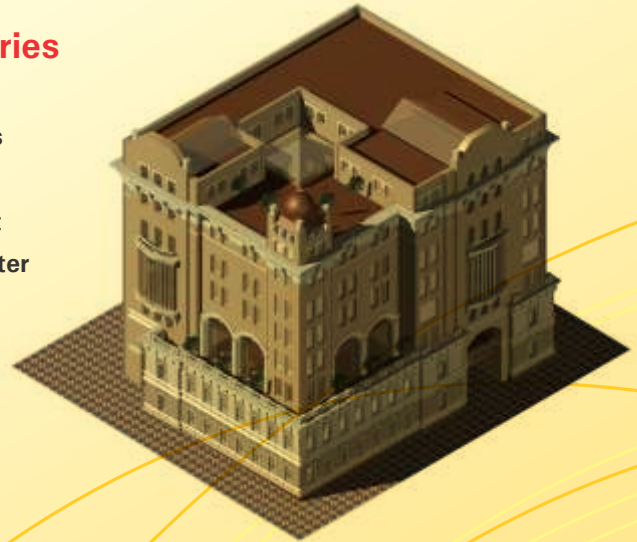
# Career Scope

## Prospective Job Profiles

- ◆ Fabricators
- ◆ Detailers
- ◆ Executive Civil Modeler
- ◆ Plant layout Designer
- ◆ CADD Designer
- ◆ CADD Operator
- ◆ CADD Technician
- ◆ Civil Designer

## Relevant Industries

- ◆ Transportation
- ◆ Roads & Highways
- ◆ Rail
- ◆ Land Development
- ◆ Water & Wastewater
- ◆ Architecture Firms
- ◆ Builders
- ◆ Structure Design
- ◆ Industrial Plants



# Be a Qualified Professional in Rendering and Animation

Rendering is the process of generating an image from a model by means of computer software. Rendering is used in architecture, simulators, visual effects and design visualization. Animations are a series of images or frames and are automatically saved directly out to disk after being rendered. Autodesk 3ds Max Design is tailored for architecture, civil engineering, and manufacturing.



## 3ds Max - Course Content

- ◆ Introduction to 3ds Max
- ◆ Modeling Using Basic Primitives
- ◆ Transforming Objects
- ◆ Customizing Working Units
- ◆ Arranging Objects Using Utility Tools
- ◆ Modeling Using Parametric Modifiers
- ◆ Editing Poly Models-using Caddy Interface
- ◆ Spline Modeling
- ◆ Landscaping and Modeling Using Compound Objects
- ◆ Construct Using Architectural Objects
- ◆ Views-lights and Cameras
- ◆ Textures-basic & Advance
- ◆ Particle Systems & Forces
- ◆ Importing Other Formats
- ◆ Basics of Animation
- ◆ Walk-through
- ◆ Advanced Rendering

**Courseware Issued:** Max for Engineers/Architects Reference Guide

**Duration:** 80 Hrs.



## Career Scope

### Prospective Job Profile

- ◆ 3ds Max Designer
- ◆ Graphic Designer
- ◆ Creative Gamer
- ◆ Animator
- ◆ 3ds Max Retail Designer

### Relevant Industries

- ◆ Architectural Firms
- ◆ Engineering Design Firms
- ◆ Video Games
- ◆ Animation
- ◆ Film Industry



# Be a Qualified Professional in Architectural Design

An architectural design software used by architecture students and professionals to make their work in designing much easier. These software can help in making 2D or 3D designs and mostly have automatic feature to make designing easier. They come in many types that suit the designer's needs. Revit developed by AutoDesk, is a single application that includes features for architectural design, MEP and Structural engineering and construction.



## Revit - Course Content

- ◆ Introduction to BIM & Revit Architecture
- ◆ Add and modify Wall Profiles
- ◆ Dimensions and Constraints
- ◆ Curtain Walls & Stairs
- ◆ Annotation & Schedules
- ◆ Sheet and Title Blocks
- ◆ In-Place Families
- ◆ Link Projects & Collaboration
- ◆ Realistic Presentations
- ◆ Place and Modify Walls & Complex Walls
- ◆ Place Doors, Windows & Components
- ◆ Create Floors and Ceilings
- ◆ Conceptual Models
- ◆ Structural Elements
- ◆ Views, Camera, Walk- through, Render & Solar Study
- ◆ Site Design
- ◆ Design Phase
- ◆ Import & Export

**Courseware Issued:** Revit Architecture Reference Guide

**Duration:** 80 Hrs.



## Prospective Job Profile

- ◆ Structure Design Engineer
- ◆ Plant Design Engineer
- ◆ Civil Design Engineer

## Relevant Industries

- ◆ Architecture
- ◆ Structural Engineering
- ◆ Mechanical, Electrical, & Plumbing (MEP) Engineering
- ◆ Construction
- ◆ Building Owners, Operations & Management



# Be a Qualified Professional in Architectural Design

An architectural design software used by architecture students and professionals to make their work in designing much easier. These software can help in making 2D or 3D designs and mostly have automatic feature to make designing easier. They come in many types that suit the designer's needs. ArchiCAD developed by Graphisoft, offers specialized solutions for handling all common aspects of aesthetic and engineering during the whole design process of built environment-buildings interiors, urban areas, etc.

## ArchiCAD - Course Content

- ◆ Introduction to BIM and ArchiCAD
- ◆ Create a Plan Using Wall Element
- ◆ Arranging Elements by Using Modify Tools
- ◆ Creating New Library Elements
- ◆ Annotations and Dimension
- ◆ Present the Project with Image and Walkthroughs
- ◆ Layout Setting and Plotting
- ◆ Multi-Storey Settings
- ◆ Placing Building Elements from Library
- ◆ Creating Wall Holes
- ◆ Floor and Roof Designs
- ◆ Documentation and Scheduling
- ◆ Construction Simulation

**Courseware Issued:** ArchiCAD Reference Guide

**Duration:** 40 Hrs.

## Career Scope

### Prospective Job Profiles

- ◆ BIM Specialist
- ◆ Project Architect
- ◆ Architectural Draftperson
- ◆ Residential Draftperson
- ◆ Virtual Construction Designer

### Relevant Industries

- ◆ Architect Firms
- ◆ Interior Designer Firms
- ◆ Construction Companies
- ◆ Builders
- ◆ Government Departments



# Be a Qualified Professional in Structural Analysis

Structural analysis is the determination of the effects of loads on physical structures and their components. Structures subject to this type of analysis include all that must withstand loads, such as buildings, bridges, vehicles, machinery, furniture, attire, soil strata, prostheses and biological tissue. Staad Pro is the structural engineering professional's choice for steel, concrete, timber, aluminium and cold formed steel design of virtually any structure.

Career Scope

## Prospective Job Profiles

- ◆ Structural Engineers
- ◆ Consulting Engineers
- ◆ Engineering Consultants
- ◆ Structure Analyst
- ◆ Material Estimator
- ◆ Structure Design Engineer
- ◆ Civil Design Engineer
- ◆ Construction Engineer

## Relevant Industries

- ◆ Structural Engineering
- ◆ Structural Consultant
- ◆ Multi-discipline E/A and A/E
- ◆ Departments in Construction Companies, Owner/operators and Government Agencies
- ◆ Oil and Gas Companies

**Courseware Issued:** • STAAD/PRO V8i Reference Guide • PWB-Structural Engineering

**Duration:** 40 Hrs.

## STAAD.PRO - Course Content

- ◆ Introduction to Structural Engineering
- ◆ Introduction to STAAD.PRO V8i
- ◆ Model Generation 7 Editing
- ◆ Assigning loads
- ◆ Automatic load generation:
  - Slab, wind and Moving loads
- ◆ Creating load combinations
- ◆ Concrete Design
  - Column and Beam design
- ◆ Seismology
  - Seismic Analysis and Design
  - Dynamic Analysis
    - Response Spectrum
    - Time History Analysis
- ◆ Foundation Designs
  - Isolate, combined, strip, Mat and Pile Cap
- ◆ FEM/FEA
  - Introduction
  - Water Tank Design
  - Slab Design
  - Staircase Design
  - Shear Wall Design
  - Bridge Deck design using STAAD.Beava
- ◆ Steel Design
  - Introduction
  - Steel Frame Structure Design
  - Overhead Transmission Line Towers Design
  - Steel Structure design with Pushover Analysis
- ◆ Report Generation and Plotting

# Be a Qualified Professional in Electrical Design

Electrical designers and engineers can drive the design, analysis, and documentation of electrical building systems. Electrical CAD Software is used for designing electro- mechanical parts and components and for designing electrical controls for mechanical components.

## Electrical CAD - Course Content

- ◆ Introduction
- ◆ Schematic Components
- ◆ Circuit
- ◆ Component Tools
- ◆ Ladder Tools
- ◆ Panel Layout
- ◆ Project Management
- ◆ Symbol Builder
- ◆ Builder
- ◆ Wire/Wire Number Tools
- ◆ PLC Layout
- ◆ Report Generation

**Courseware Issued:** AutoCAD Electrical Reference Guide

**Duration:** 120 Hrs.



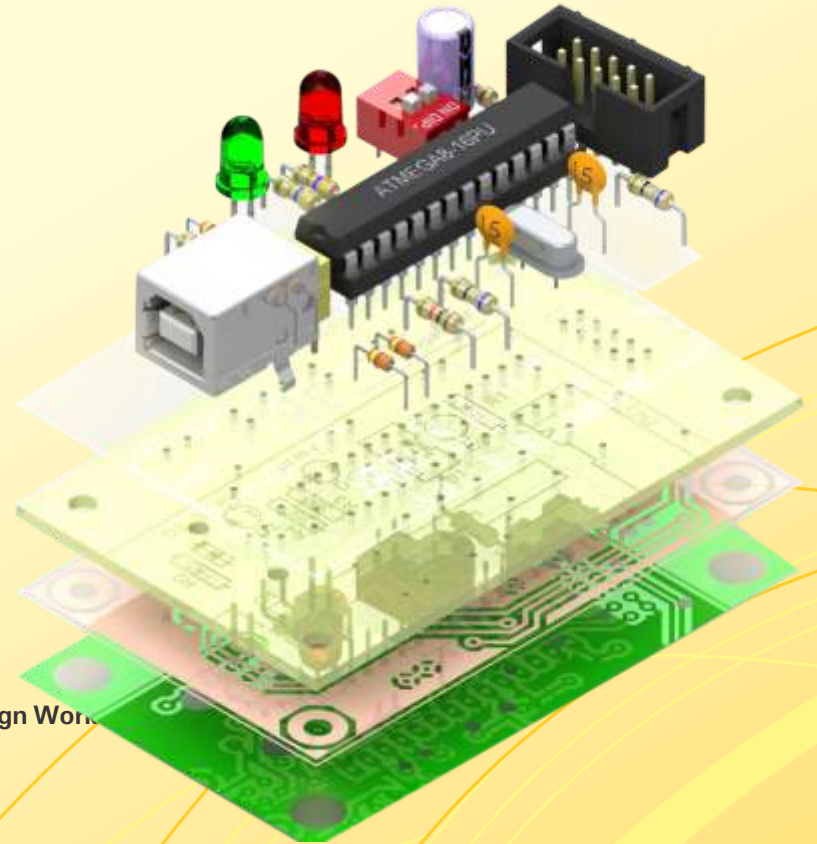
## Career Scope

### Prospective Job Profiles

- ◆ Electrical Designer
- ◆ Electric Design Engineer
- ◆ Power Circuit Designer
- ◆ Control Circuit Designer
- ◆ Domestic Wiring Designer
- ◆ Commercial Wiring Designer

### Relevant Industries

- ◆ Petrochemical Plants
- ◆ Oil and Gas Companies
- ◆ Power Plants
- ◆ Industrial Plants
- ◆ Electrical Switchboard Design
- ◆ Projects for Various Clients Producing Design Work for Bespoke Equipment Skills.



# Be a Successful Project Manager

Project Management is the process and activity of planning, organizing, motivating and controlling resources, procedures and protocols to achieve specific goals in scientific and daily problems. The main job of Project Planning and Management is to achieve all of the project goals and objectives while honoring the preconceived constraints.

## Project Planning and Management Concept - Course Content

### ◆ Introduction

- Project
- Project Management Life Cycle

### ◆ Phases in Project Management

- Initiation
- Execution
- Closing

### ◆ Knowledge areas

- Time Management
- Scope Management
- Risk Management
- Procurement Management
- Communication Management

- Project Management
- Organisation Structure, Cultures and styles

- Planning
- Monitoring and Controlling

- Cost Management
- Quality Management
- Human Resources Management
- Integration Management

**Courseware Issued:** PPM Concepts Reference Guide

**Duration:** 24 Hrs.



# Career Scope

## Prospective Job Profiles

- ◆ Assistant Project Manager
- ◆ Procurement Manager
- ◆ Junior Project Coordinator
- ◆ Assistant Program Manager

## Relevant Industries

- ◆ IT Companies
- ◆ Engineering Services
- ◆ Health Care Services
- ◆ Mobile and Telecom Industries



# Be a Qualified Professional in Industrial Project Management

Microsoft Project is a project management software program, developed and sold by Microsoft, which is designed to assist a project manager in developing a plan, assigning resources to tasks, tracking progress, managing the budget and analyzing workloads. Projects are in many industrial organizations a dominating work form, by which they deliver complex customer orders, organize research and development, organize entrepreneurship and innovation, and implement strategic changes. Projects are intended to be handled by means of rational planning, but are also subject to insecurity, prestige, wishful thinking and conflicts.

## Microsoft Project - Course Content

- ◆ Activity – definition, sequencing and estimation
- ◆ Calendar
- ◆ How to develop a schedule plan and control
- ◆ Network analysis – CPM, PERT, PDM
- ◆ How to prepare work breakdown structure (WBS)
- ◆ How to update wbs constraints
- ◆ How to manage cost in a project
- ◆ How to do resource planning
- ◆ How to prepare resource sheet
- ◆ How to apply resource to each activity
- ◆ How to define resource pool and to allocate resources
- ◆ Filters and grouping
- ◆ How material resources are being allocated
- ◆ Analyzing resources by leveling the resource using crashing, stretching & slitting
- ◆ Earned value analysis
- ◆ Method of developing different types of reports according to industrial needs
- ◆ Scheduling in multiple projects
- ◆ Customization

**Courseware Issued:** • MSP Reference Guide • Work Book(Electrical/Civil)

**Duration:** 40 Hrs.

## Career Scope

### Prospective Job Profiles

- ◆ Project Manager
- ◆ Project Consultant
- ◆ Project Planner
- ◆ Project Coordinator
- ◆ Senior Estimator
- ◆ Senior product Engineer
- ◆ Program Manager
- ◆ Project Control Engineer
- ◆ Operational Administrator



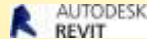
### Relevant Industries

- ◆ Oil and Gas
- ◆ Manufacturing Companies
- ◆ Software Companies
- ◆ Government Companies
- ◆ Construction Companies
- ◆ IT Industries
- ◆ Mobile and Telecommunication

## Streams available

- ◆ Mechanical
- ◆ Civil
- ◆ Electrical
- ◆ Architectural
- ◆ Project Planning and Management

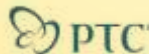
## Software offered



## Project Management Planning

- ◆ PPM Concepts
- ◆ Microsoft Project
- ◆ PRIMAVERA

## Prospective Training Partners



### Training Site:

CADD Centre training services, UMA Showgrounds, Lugogo Near Coca cola stand

PO. Box 11221, Kampala, Uganda

Tel: 256 700 555557 E: [caddcentreuganda@gmail.com](mailto:caddcentreuganda@gmail.com)

### Corporate Headquarters

No. 91, Dr. Radhakrishnan Salai, 8th floor, GEE GEE crystal, Office No. 8C & 8d, Mylapore  
Chennai 600 004, India

Tel: (91 44) 4596 6100 E: [info@caddcentre.com](mailto:info@caddcentre.com)