**AUTOCAD**

AutoCAD assists in the creation, modification, optimization of a design. With this, we can create both 2D and 3D drawings used in construction and manufacturing. It is most commonly used for creating and modifying 2D & 3D designs for professional drafting with detailed measurement information about the conceptual design and layout of the product.

AutoCAD can be seen as a universal design tool, with the ability to handle 2D and 3D design seamlessly. It can be further customized to suit your industrial need.

**Where it is used**

Widely preferred in the industries of mechanical, telecom, civil, electrical, architectural engineering.

**To gain**

Comprehensive knowledge of AutoCAD.

Mentorship during and after the course.

Certificate of completion.

Career advice.

**FUSION 360**

Fusion 360 is a cloud-based CAD/CAM tool for collaborative product development. It enables exploration and iteration on product ideas and collaboration within a distributed product development team.

Fusion 360 combines organic shapes modeling, mechanical design, simulation, and manufacturing in one comprehensive package. It can also help in animating designs, render objects, simulate loads, and even prepare models for CNC machining.

**Where it is used**

Widely used in construction, product design (prototypes) and manufacturing, mechanical engineering, electrical engineering

**To gain**

Comprehensive knowledge of Autodesk Fusion 360.

Mentorship during and after the course.

Certificate of completion.

Career advice.

**INVENTOR**

Autodesk Inventor can be used for mechanical design, product simulation, and tooling creation. It can aid greatly in simulation and visualization even before products are built. Inventor is a dimension-driven CAD application that is used in engineering designs, visualization simulation, and documentation.

It seamlessly bridges the gap between product designs, engineering, and manufacturing processes. With Inventor the creation of intelligent parts such as steel frames, wire harnesses, rotating machinery can be automated. It speeds up the design process significantly using an advanced geometry mechanism.

**Where it is used**

Widely used in construction, product design (prototypes) and manufacturing, mechanical engineering, electrical engineering.

**To gain**

Comprehensive knowledge of Autodesk Inventor.

Mentorship during and after the course.

Certificate of completion.

Career advice.

**AUTOCAD PLANT 3D**

AutoCAD Plant 3D is a piping design software that including piping, equipment, support structures, generation of isometric, orthographic drawings, and AutoCAD P&ID which allows you to create, modify, and manage schematic piping and instrumentation diagrams.

AutoCAD Plant 3D is an Autodesk application targeted at the design and layout of process plant facilities. It has the tools and features designers need to create detailed plant models. Using spec-driven technology and standard parts catalogs, designers can streamline the placement of piping, equipment, support structures, and other plant components.

**The industry where it is used**

AutoCAD Plant 3D is used for process plant facilities in petrochemical industries.

**To gain**

Comprehensive knowledge of AUTOCAD PLANT 3D.

Mentorship during and after the course.

Certificate of completion.

Career advice.

**ASPEN HYSYS**

Aspen HYSYS is the leading energy industry’s process simulation software that is used by petrochemical industries, refineries, and engineering companies for process optimization in design and operations. It is used extensively in the industry due to its steady-state and dynamic simulation, process design, performance modeling, and optimization.

It mathematically models chemical processes, from unit operations to full chemical plants and refineries. HYSYS can perform many of the core calculations of chemical engineering, including those concerned with mass balance, energy balance, vapor-liquid equilibrium, heat transfer, mass transfer, chemical kinetics, fractionation, and pressure drop. The information generated can then be used to optimize the process design.

**The industry where it is used**

Aspen HYSYS is used for process plant facilities in petrochemical industries.

**To gain**

Comprehensive knowledge of ASPEN HYSYS.

Mentorship during and after the course.

Certificate of completion.

Career advice.