

Features and Benefits of DemosCAD® Construct™

DemosCAD Construct Platform is designed to enable users to share knowledge and skills through Local Area Network (LAN) or Wide Area Network (WAN) on how projects are carried out in AutoCAD and in real-life situation. It is integrated in SkyTOP DemosCAD®- the software program that let design professionals and drafters work with Autodesk AutoCAD without requiring conventional training. The Platform is accessed from the Resources menu of DemosCAD software.

The key features and benefits of DemosCAD Construct are:

- **Upload Projects window:** This is a customized feature that allows users (lecturers or trainers) to upload content that will be accessible to their students.
- **Project Literature:** This feature allows users to upload and download files in PDF format, documenting the various features, specifications and steps used in creating the projects. The project literature gives the user a broader understanding of the whole project.
- **Components Feature:** The components feature introduces the user to the basic building blocks of a project, whilst also detailing the key specifications.
- **AutoCAD Tools Feature:** The tools feature enables the user to explore the specific AutoCAD tools used to create the project or the Project components. These tools reside on the DemosCAD platform. Clicking on any listed tools takes a user to DemosCAD software where the command tool is demonstrated.
- **Assembly Feature:** This feature enables the user to observe and understand the process of putting the components together to form the final project.
- **Animation Feature:** The animation feature enables the 3D representation of a project. This computational model gives the user a visual assessment of the project prior to production of the physical model.
- **Simulation Feature:** This is the feature that lets users view how a particular object, component operate. For example, those pursuing aeronautical engineering may use the DemosCAD Construct to demonstrate how an engine of a plane operate or how an airplane flies.
- **Project Details Tab:** Through this tab, the user can enter the project brief, upload pre-recorded video, animation, image, drawing or sketch of the project. Using the tab, the user is also able to upload project assembly video or simulation or instructions on how the project should be carried out.
- **Projects Components Tab.** This is the tab through which all parts that form the design project and AutoCAD tool used in the project are uploaded. For example, if it's a project of a house design, the components may include; foundation, walls, roof, columns, doors, windows, ceiling, etc.
- **Components Summary Tab:** This tab displays a summary of the information entered or uploaded by user about a component.
- **Project Summary Tab:** This tab displays a summary of the information entered or uploaded by user about a project. It includes; name of the project, name of the project author, list, animations and images of the components used, assembly of components and parts, project literature and instruction guide and year the project was uploaded.
- **Auto Notifications Feature:** Upon uploading a project assignment in DemosCAD Construct, the platform instantly notifies the target students about the assignment via a SMS text to their cellphones. The trainer may however select via a checkbox who the system should send the notification to.
- **Student Portal:** This online feature is provided for students or learners to upload their assignments in DemosCAD Construct platform or view their own projects. Unless allowed via specific credentials, no student is able to view projects by another student without permission.

- **Trainers Portal:** This online feature is provided for trainer to upload and share projects assignments in DemosCAD Construct Platform. The feature also lets them view projects uploaded by students onto the platform

While the user institution or organization determines what version of DemosCAD Construct to acquire depending on their programmes, the software platform currently comes in three versions:

- **DemosCAD Construct AEC:** The Building and Construction version that provides a platform for architects, engineers and those in construct sector to share knowledge and skills online about how projects are carried out in AutoCAD and in real-life situation. Through the Platform, students are also able to send their project assignments for evaluation by their lecturers or instructors.
- **DemosCAD Construct PDM:** The Product Design and Manufacturing version that lets designers and those in the manufacturing sector share knowledge and skills online about how products are designed (from concept to assembly) using AutoCAD and in real-life situation.

Through the Platform, students are also able to send their project assignments for evaluation by their lecturers or instructors.

- **DemosCAD Construct SKTP:** This version lets a user- regardless of discipline- share knowledge and skills on how products or projects are designed (from concept to assembly) using AutoCAD and in real-life situation. Through the Platform, students are also able to send their project assignments for evaluation by their lecturers or instructors.