



“CADWorx Plant and CADWorx Design Review allowed us to teach our students modern plant design tools quickly and efficiently.”

Daniel Narvaez, Mechanical Engineer at Mekinvest

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Mekinvest chooses CADWorx Plant and CADWorx Design Review to train future engineers

Mekinvest delivers drafting services

Mekinvest was founded in 2007 in Quito, Pichincha region, Ecuador and offers engineering drafting services for plant and facility projects.

Training project from a recognized university

Since its inception, Mekinvest has been involved in various plant design engineering projects, but the requirements for this new task was totally different. The company had been chosen by Escuela Politecnica del Ejercito, a recognized university in Quito city, with a view to develop new training content. Mekinvest was required to develop standardized approaches to the mechanical design of industrial plants, and in turn, train mechanical engineering students on best practices in the design of process plants using up-to-date intelligent plant design tools.

Choosing CADWorx to train future engineers

For previous projects Mekinvest had used plain AutoCAD, but found that doing so was not an efficient way of doing plant design. “We had used basic AutoCAD to develop engineering drawings and plans before. This always led to multiple errors and meant that extra time was spent on correcting these errors, plus it was difficult to visualize piping projections and equipment assemblies. COADE CADWorx solved that problem for us,” says Daniel Narvaez, Mechanical Engineer at Mekinvest. Due to their success with COADE solutions, Mekinvest decided to use CADWorx Plant Professional and CADWorx Design Review to teach up-to-date plant design methods to the future engineers of Escuela Politecnica del Ejercito.

Clarifying design process

After a short period of time, the university’s students were able to quickly review and navigate through plant design deliverables using CADWorx Design Review. By the end of the project the students gained a good working knowledge of the principles of piping layout, process plants, isometrics, and mechanical equipment. The students’ progress was, in part, thanks to the flexibility offered by the CADWorx Plant Design Suite of products that included CADWorx Plant Professional, CADWorx Design Review, CADWorx Steel Professional, CADWorx Equipment and ISOGEN.

“CADWorx Plant and CADWorx Design Review once again helped us develop project deliverables, to have a clear vision of the design process, and understand how to develop a plant layout with all the process equipment,” says Mr. Narvaez. “The young engineers that made up the project team designed a process plant and learned the principles of developing a layout plan, all in 3D”.

Perfect tools for ease of learning and application

In the future Mekinvest plans to employ young engineers at their company. “It is imperative to have proper training tools in place,” argues Mr. Narvaez, “to instill good plant design practices and methods.”

“Today, when an engineering students are learning how to design process plants, it is critical that they have access to proper design tools, to make the training process easier and more efficient. It is too difficult to learn this material in the classroom setting without practice. CADWorx gives the student the perfect practical tools to learn quickly and to help him or her eventually become a plant engineering expert,” concludes Mr. Narvaez.