



Industrial hydraulics course at Vickers Training Center

Reducing downtime using engineering simulations

For more than half a century, the Vickers Training Center set the standard for practical and applied learning in the commercial hydraulics arena. Now, as the Eaton/Vickers/Char-Lynn Training Center, they offer more than 60 courses for hydraulic repair personnel, supervisors, engineers, and even purchasing agents. The knowledge imparted by them enables companies to achieve significant savings by reducing unplanned downtime and maximizing the effectiveness of planned downtime.

THE NEED FOR E-LEARNING

Vickers Training Center, Detroit had been conducting a classroom course on Industrial Hydraulics successfully for 50 years. A need was felt to create a generic CD with the same course content and place it in the market as a refresher to the original course. The objective of the training was to provide detailed information to people using hydraulic machines. This program was developed in the year 1998 in partnership with Vickers.

HOW OUR SOLUTION HELPED

Tata Interactive Systems developed a highly engaging, interactive CD-ROM based training program. The approach taken for the development of the training program was:

- To bridge the technology gaps before the development of the training solution.
- Conduct intensive on-site workshops to impart knowledge to developers on aspects of pump assembly and disassembly.



The program complemented the classroom training, making for a quick, engaging, and comprehensive refresher course.

The features of the program included:

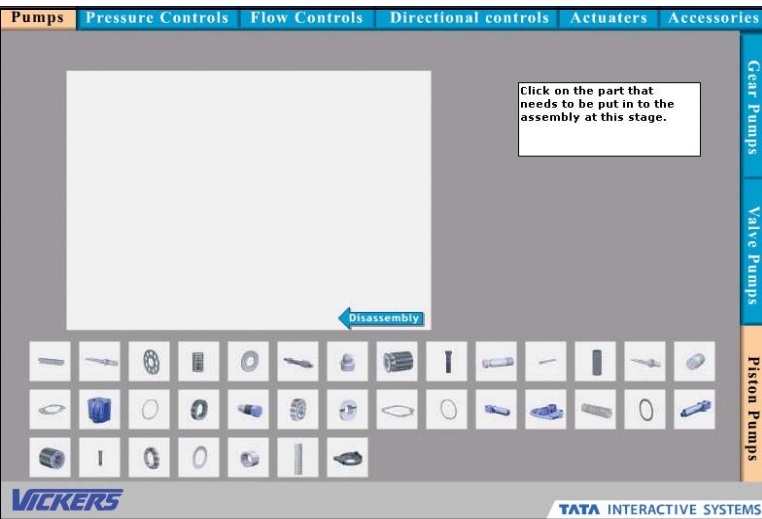
- Five main modules—four dealing with the principles of hydraulics and one dealing with the operation of different hydraulic components.
- A quiz at the end of each module to reinforce the learning.
- Detailed 3D models to demonstrate the internal working of the hydraulic components.
- Interactive 3D models of the assembly and disassembly process—learning by doing to make learning effective.

TECHNOLOGY USED

This program was developed for Windows 95, using 3DStudio Max, with VC++ 4.0 as the integration technology.

SOME SAMPLE SCREENSHOTS

These screenshots offer a brief glimpse of the Industrial Hydraulics course at Vickers Training Center. To experience our products at work, you may view the demos by registering online at www.tatainteractive.com.



Useful tips about each component are provided at every stage of the assembly.

The program enables users to assemble a hydraulic pump step-by-step.



Detailed 3D models demonstrate the internal working of the hydraulic components.

