

IMPROVE TRAINING WITH INTERACTIVE 3D LEARNING

Creating cost effective training materials for complex global equipment is critical to your organization. Research has proven time and again that interactive 3D learning improves comprehension, retention and on-the-job performance and costs less than product mockups, physical simulations, and other active learning approaches. Achieving this mission critical goal is the challenge. Until now.

Cortona3D RapidLearning is the first 'out of the box' learning toolkit for producing digital interactive learning applications using animated 3D simulations. It combines existing CAD assets with training documentation to generate visually realistic, interactive learning. RapidLearning guides trainers through the production process, prompting them to illustrate each step of the training scenario with a corresponding 3D animation to build a complete RapidLearning simulation.

CREATE 'VISUAL KNOW-HOW' LEARNING IN MINUTES

An interactive animated 3D training scenario can be created in minutes following these easy steps:

1. Create an animation for the procedure
2. Add steps for the training scenario and associate animations with those steps
3. Create questions that trainees must answer
4. Apply conditional branching, creating different learning paths for trainees to follow
5. Publish as a standalone HTML document or integrate with any SCORM-compliant LMS



BENEFITS AT A GLANCE

- **Optimize return on training investment (ROI)** due to quicker comprehension, better retention and increased productivity.
- **Cut training program development & distribution costs** by reusing CAD and existing documentation data and deliver real world learning without the costs, delays and inconvenience of physical mock ups and classroom training.
- **Accelerate Training Timelines** by developing learning programs concurrently with product development which can commence before products even reach the market.
- **Lower localization costs** with interactive 3D training that is not language dependent.
- **Increase effectiveness of learning.** 3D Training is more engaging and makes learning more intuitive, memorable and fun.
- **Improve safety.** Trainees can explore solutions to instructor-specified problems in a risk-free, realistic environment that encourages learning.
- **Train in the field** via the internet or on standard desktop PCs, enabling product updates and on-the-spot refresher courses.
- **LMS and SCORM compliance.** Created training simulations can be used in any learning management system (LMS) that supports the SCORM standard.

WHO USES OUR PRODUCTS?

- Ford
- Boeing
- ESA
- Airbus
- NASA
- Pfizer
- General Atomics
- Volkswagen
- Schneider

What's the result? An animated, interactive 3D training simulation usable as a standalone application or integrated with existing SCORM-compliant Learning Management Systems (LMS).

Trainees control the learning process and can move between three different training modes:

DEMO

Observe step-by-step procedures in 3D training animation and interact with 3D models by rotating, zooming and reading the corresponding textual documentation. Examine the object from any angle to understand how parts fit together.

STUDY

Experience real machinery in a fully interactive 3D environment. Trainees are prompted to complete simulated maintenance and repairs in an interactive 3D environment.

EXAM

Evaluate trainees with a series of skills tests created within the application: identify part configurations, select correct items, progress through step-by-step procedures without prompting. The performance of a trainee is captured and can be reviewed or transferred to an LMS.



Training is more effective when it is visual and interactive. Complex technical procedures can be simply communicated.

ASTRONAUTS TRAIN WITH CORTONA3D

The European Space Agency uses RapidLearning to create computer-based training simulations for on-ground and in-orbit training at the International Space Station.

Using 3D simulations, astronaut crews observe and then practice simulated procedures on laptops before moving to physical mock-ups and, ultimately, the real thing. Using 3D simulations, the crew can hone their 'Visual Know-How' skills right up to run-time.

Crews benefit from the new generation training developed using Cortona3D RapidLearning. Astronauts are able to refresh their knowledge of system procedures of the Integrated Cargo Carrier on-board, just before executing them with the real hardware.



FEATURES

- No 3D or CAD expertise required
- ISO open standard enables seamless integration with other applications
- Lightweight format for delivery over the Web, intranet or on laptops and Pocket PCs
- Optimized CAD data cannot be reverse-engineered, protecting intellectual property
- Integrates into existing work processes
- SCORM compliant – works with any LMS
- 'Dynamic update' ensures that changes are easy to upload and reflected in all training materials

SYSTEM RECOMMENDATIONS

- 1.5 GHz microprocessor or higher
RAM: 512 MB
- Windows 2000 SP2 or Windows XP, Internet Explorer 6.0 and DirectX 7
- Additional software:
Microsoft XML Core Services (MSXML) 4.0