



Virtual Maintenance Trainer

VMT is a fully immersive and simulated aircraft maintenance environment for an innovative learning experience based on hands-on exercises. VMT makes extensive use of engineering data, subject matter and pedagogic/IT expertise. It provides a wide variety of effective scenarios for conversion, recurring, or specialty courses. Scenarios range from procedural tasks such as pre-flight check and equipment removal/installation/test, to complex troubleshooting.

With maintenance simulation, technicians get to see emergency and wear & tear conditions before having to deal with them on the aircraft. Stress is lowered when they have to return the aircraft to readiness status. Each need being specific, our team use VMT workshop to customize VMT content and fit in your data package, according to your requirements.



Key Features

A 360° VIRTUAL ENVIRONMENT

Technicians work in a real-time 3D virtual world, in which aircraft and its ground environment are fully simulated. This allows instructors and students to handle aircraft, tools, spares, troubleshooting systems, technical documentation and see how the system reacts in response to their actions. Aircraft and hangar space are no longer needed. It also simulates the most expensive/dangerous/complex faults at no risk or extra-cost.

WITH AMAZING PERFORMANCES

Whether displayed on a 90-inch wall screen or on a 9-inch touch screen, VMT always reacts within milliseconds. Its intuitive multi touch gestures enhance the learning experience.

SIMULATING A VARIETY OF PROCEDURES

Practicing the most complex procedures on the most advanced aircraft is as simple and intuitive as a video game. Step-by-step written instructions help you do things right when practicing. Once you evaluate your skills, the system transparently tracks what was right or wrong and displays a comprehensive debriefing log.

Specifications

LEARNING EXPERIENCE

Instructor-driven (see-through or academic)
Trainee-driven (self-training or evaluation)

LEARNING MANAGEMENT SYSTEM (LMS)

Dashboard of training materials/curricula, classrooms and trainees
Courses/trainees performance tracking
Mistake tracking/debriefing

SIMULATION

Real time rendering of the virtual, textured aircraft with high performance zoom in/zoom out capability
Fully interactive aircraft panels, doors & bays
Simulated cockpit, ground support equipment, tools
Virtual spares, ingredients
Third party software cooperation framework (health & usage, troubleshooting, technical manuals, etc.)

SOCIAL & GAMIFICATION

Virtual expert tips & tricks
Compatible with VR headsets

COURSES

Complex troubleshooting scenarios
Hangar/Line maintenance practice
Step-by-step procedures as per technical documentation

USAGE

Courseware with or without instructor guidance
Allows extra training for staff that would otherwise never have access to training

PLATFORMS

Windows, Touch screen
9 through 98+ inches displays, networked classrooms
Ultra HD graphics, highest frame rate per second

SOGITEC DIGITAL PIPELINE encompasses CBT, VMT, HUMS & FIELD (Touch, Builder, Card, Booster, API).