

MILITARY SIMULATION AND TRAINING

World class technology. Integrated training solutions.



Total training – any mission, every day.

Prepare your personnel with the most advanced technology available, knowing your training system is completely concurrent with the real platform. Get the reliability, flexibility and cost advantages of an original avionics equipment manufacturer that can provide you with end-to-end training solutions for even the most complex needs.

**Rockwell
Collins**

Building trust every day



Total concurrency in a complex environment.

Whether you need to train operators or maintainers, Rockwell Collins simulation and training solutions deliver. Our market-leading avionics, superior fidelity and unprecedented environment realism enable trainees to make a seamless transition from training to real-world environment.

Incomparable image generation. Dynamic model and terrain interaction. Open systems architecture. Rehosted avionics software. A wide range of trainer types, from wearable to laptop portable to full-fidelity simulators to integrated Live Virtual Constructive exercises. It all adds up to systems with the sophistication and flexibility to meet your most exacting training requirements, today and tomorrow.

We can flawlessly execute an Integrated Logistics Support plan to ensure maximum concurrency through the life of your program.

One trusted source, big advantages.

When it comes to training and simulation solutions, it pays to go with experience and expertise. With Rockwell Collins, you can depend on our systems integration experience to bring all of your training elements together seamlessly.

As a Rockwell Collins customer, you benefit from our deep integration experience on multiple platforms – fixed wing, rotary wing or vehicle.

Our industry-leading investment in groundbreaking research and development helps anticipate your future needs with advanced technologies. Whether it's rehosted avionics, communications, visual and sensor systems or bringing live and virtual assets together in one training exercise, you can depend on us for comprehensive solutions with total reliability.

Go to a single trusted source for the fastest, smoothest, most cost-effective way to prepare your forces for any possibility.



Realistic in every aspect.

Just as you want your trainees to be exceptionally well prepared to operate in their real-world environments, you also need your training system to operate within real-world constraints such as budget, space availability, location, scheduling, changing mission parameters and other considerations.

It's why our simulation and training solutions include features that address these practicalities and others. Our open systems and modular design make it easy to customize an agile, portable solution to your evolving training needs and to cost-effectively update software and hardware as technology advances.

And because our systems incorporate commercial off-the-shelf (COTS) components and scalable design, your life-cycle costs are kept as low as possible.

E-2D Advanced Hawkeye Training System



Our E-2D Advanced Hawkeye Integrated Training System for Aircrew (HITS-A) provides the U.S. Navy with advanced radar, aircraft systems and avionics that improve supportability and increase readiness.

The U.S. Navy named Rockwell Collins prime contractor for HITS-M, the first integrated E-2D maintenance training system. HITS-M will include instructor-led training, computer-aided instruction, interactive courseware, a simulated maintenance trainer and power plant trainer.



Instructor led

Web-based/desktop training

Prepare across the full training spectrum.

Rockwell Collins training solutions bring you advantages you won't find anywhere else. As original equipment manufacturer of the avionics that your crews will use as part of their daily tasks, we also leverage our experience as developer, designer and integrator of avionics and training systems for seamless implementation and operation.

Our world-class training products and solutions span the entire training continuum. Whether you need instructor-led training, computer- and Web-based training, a virtual avionics trainer, full-fidelity simulator or fully integrated, blended training solution, Rockwell Collins offers it.

Enhance your operational and maintenance effectiveness with training solutions that blend the real and virtual worlds, replicating intense training scenarios so you can prepare for what's ahead.

Mission training keeps your forces at prime readiness.

Mission commanders, pilots, mounted soldiers and other operators must fully develop their knowledge and skills to enable the informed, split-second decisions they will have to make in the heat of battle.

Our simulation and training solutions include: real-world environment matching through the industry's largest environment database library; easy portability; and rapid deployment. Our CORE™ simulation architecture ensures that training advances with technology while keeping ownership costs low. You have a wide range of operator training options, from instructor led to full-fidelity simulators.

Rely on us for efficient and effective training that also maximizes operational cost savings.





Part-task



Flight training devices



Full flight simulators

Maintenance training optimizes crews and assets.

Rockwell Collins maintenance training systems balance effectiveness, speed, cost and asset availability through innovative design and execution.

Following your platform's Interactive Electronic Technical Manual (IETM), our systems blend virtual and physical tasks with sophisticated simulation models. Instructors can monitor and interact with trainees through the integrated instructor station.

Choose from high-value, multi-platform options that include instructor-led, computer- and Web-based, desktop, part-task and integrated training.

Built around open, scalable and reusable architecture, our solutions support integration of multiple vehicles and variants. They'll keep your maintenance crews training on the most current technology – and training will never divert actual working assets for the purpose.

Stryker maintenance training



Virtual classroom and physical fidelity training components fully integrate with vehicle IETMs for effective crew training. Open, rescalable architecture enables multi-platform training with ease.

Simulation models and part-task and hands-on applications let trainees troubleshoot vehicle system faults, with instructor monitoring from the system's instructor station.



Transportable Blackhawk Operations Simulator (T-BOS)



Take UH-60 Blackhawk simulation and training to garrison, field and deployment environments with our Transportable Blackhawk Operations Simulator (T-BOS).

Its modular, ruggedized components are containerized for easy portability via air, ground and ship. Set up and be ready for training within eight hours. Aircrews can perform integrated mission planning and rehearsal, emergency procedures tasks and much more.

Visual, sensor and display systems for “train the way you fight” scenarios.

Enhanced training is most effective when it feels so real it can make heart rates rise and adrenaline surge. When your forces train in this environment, they're as ready as they can be for the battlespace.

Key components to this true-to-life feel are the visual, sensor and display systems within your simulator. Our technologies for image and sensor generation, projection and display combine real-world scene density and striking fidelity. They bring unprecedented realism to your training with systems for a wide range of training levels.

Image generation

With our wide range of image generator systems, you'll have the superior visual realism that meets your most complex training requirements while keeping life-cycle costs low. Every system features high scene fidelity such as true 3-D volumetric clouds, blowing sand, snow and sea states for unsurpassed realism in a synthetic environment.

Your system will offer the scalability to grow with you as your training needs change and technologies advance. And with COTS technologies, each system gives you maximum value.

In addition, our image generation systems access the Rockwell Collins high-fidelity database library, among the largest of its kind in the world.

Display systems and projectors

Proven in the most demanding training environments, our display and projector systems deliver exceptional flexibility and performance with a broad range of out-the-window options. High reliability keeps hands-on maintenance to a minimum for more available training time.

Features include: collimated or real-image displays, patented black-level ability to achieve instantaneous sequential contrast ratios unsurpassed in the industry, best-in-class night-vision goggle stimulation for true mission rehearsal, enhanced motion-blur reduction, smooth blending, and auto calibration for maintaining the perfect out-the-window experience.

Sensor systems

Whether you want to add sensor simulation to your training program or need an array of simulation and training solutions that includes sensor simulation, Rockwell Collins can do it all for you.

We provide the full range of sensor simulation capabilities, including Synthetic and Inverse Synthetic Aperture Radar imaging, weather simulation, high-fidelity sensor modeling and global database. You're assured of a proven, reliable system that offers full correlation and integration with your other training systems through our Modular Open Systems Architecture.





Immersive training with HMD systems.

Pilots, mounted or dismounted soldiers, maintenance personnel and others can train with the ease of a display system that can go wherever they go. Our helmet- and head-mounted displays (HMDs) immerse the trainee in the virtual environment, with features specific to the type of training you require.

Rugged and lightweight, easy to wear and use, our HMDs also deliver high resolution and performance optics, a wide field of view and proven combat technology.

Committed to leading the way in simulation and training.

As a Rockwell Collins customer, you will benefit from our ongoing commitment to emerging technologies. Our investment in research and development is one of the highest in the industry. We continually look for ways to further enhance our training offerings.

For example, our Live Virtual Constructive technology provides an intensive training environment that can fully integrate live participants from disparate worldwide locations – including test ranges – with highest-fidelity virtual scenarios and constructive elements. With it, mission training and rehearsal experiences are as close to real as they can get.

Global support wherever and whenever you need it.

The support you'll find with any Rockwell Collins simulation and training system extends around the world and throughout the life cycle of your solution. Tailored to your specific needs, our support is designed to meet your operational requirements and reduce your total cost of ownership.

F-35 Lightning II visual system



Pilots on F-35 Joint Strike Fighter aircraft will train with the world's most advanced visual system. This full-mission simulator system features image generation with whole Earth training, world-class image quality and scene density using programmable COTS technologies.

The system's rear-projected display dome offers unprecedented contrast. Its modular fields of view provide low- to high-end options and cost-effective upgradability.

Building trust every day.

Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

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