When it comes to the training of maintenance personnel, military leaders face a continual challenge. The training must be timely and effective. Costs must be controlled. Mission-critical vehicles and equipment must be ready at all times.

Rockwell Collins’ Ground Vehicle Maintenance Training (GVMT) solution provides a scalable approach to maintenance training. It’s the ideal, low-cost solution for training maintenance personnel for ground-based applications.

GVMT enables the maintainer to gain proficiency through an instructional program that includes 3D virtual and physical training devices. Its open architecture easily supports multiple platform training.

Scalable software preloads can cover a variety of curriculums, so instructors can quickly change to other ground vehicle configurations.

**THE TOTAL TRAINING SOLUTION**

Using a combination of 3D virtual simulation, part-task and hands-on training applications, GVMT creates a total training capability that accurately depicts situations that maintainers will face in actual deployment and sustainment operations.

Three core elements comprise the GVMT suite. All are also procurable as single devices.

- Diagnostic Troubleshooting Trainer
- Part-task Trainer
- Hands-on Trainer

KEY BENEFITS

- Open, rescalable architecture supports any vehicle type or variant
- Increases proficiency in identifying, repairing and replacing components and parts
- Reduces cost and risk
- Decreases training time
- Able to insert vehicle system faults with no hardware alteration
- Realistic, virtual 3D world
- Enhanced software monitoring capabilities alert instructor when students deviate from assigned training
- Alerts instructor when a student enters into a dangerous condition that could result in injury
INTEGRATED CLASSROOM TRAINING

The Diagnostic Troubleshooting Trainer is a desktop trainer that enables each student to perform maintenance steps within a realistic virtual environment consisting of physics-based simulated models.

The trainer incorporates the vehicle’s Interactive Electronic Technical Manual, or IETM. Using 3D virtual models, the student interacts with the IETM through actual maintenance steps. The student receives immediate error feedback from the trainer.

Instructors can monitor student progress either at the instructor station or via an enhanced, remote instructor operator system capability. This enables the instructor to move freely around the room while continually checking student progress via automated software monitoring. Unique to Rockwell Collins, this monitoring system enables the instructor to maintain constant communication with each student.

Three versions of classroom training are available:

- **Lockstep** – advancing within the training requires students to complete tasks in a defined, sequential order dictated by the IETM
- **Scored mode** – follows the IETM but allows students to deviate from the assigned task sequence while alerting the instructor on student activity
- **Tutorial** – enables students to train on their own

ENHANCED KNOWLEDGE

The Part-task Trainer builds on the knowledge students gained on the Diagnostic Troubleshooting Trainer by enabling them to perform maintenance procedures on actual hardware. Emphasizing remove and replace procedures, students demonstrate their proficiency in performing specific maintenance tasks, such as the replacement of power-pack or driveline components.

REAL-WORLD TASKS

GVMT’s final high-fidelity training component is the Hands-on Trainer. It incorporates an actual vehicle hull that has been modified to accommodate real-world training tasks. The trainer’s software interfaces with I/O sensors to drive hardware, accept student inputs and report any deviation from training.

Students perform troubleshooting and maintenance tasks, demonstrating their knowledge on the Hands-on Trainer. Their performance is scored and recorded. These scores are stored on the Training Management System server, which is integrated with all of the training device platforms (i.e., the Diagnostic Troubleshooting Trainer, Part-task Trainer and Hands-on Trainer) within the GVMT suite.

THE TRAINING CONTINUUM

GVMT products are just part of our full spectrum of cost-effective training solutions. As a world-leading avionics supplier, we provide an array of training solutions to ensure our customers get the greatest benefit from their avionics systems.

Rockwell Collins’ training portfolio includes instructor-led training, desktop and web-based tools, as well as full-motion flight training devices.

Training is just part of our unsurpassed level of support. Other services include product documentation, spares, on-site service and full warranty support.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Students perform troubleshooting and maintenance tasks, demonstrating their knowledge on the Hands-on Trainer. Their performance is scored and recorded. These scores are stored on the Training Management System server, which is integrated with all of the training device platforms (i.e., the Diagnostic Troubleshooting Trainer, Part-task Trainer and Hands-on Trainer) within the GVMT suite.

THE TRAINING CONTINUUM

GVMT products are just part of our full spectrum of cost-effective training solutions. As a world-leading avionics supplier, we provide an array of training solutions to ensure our customers get the greatest benefit from their avionics systems.

Rockwell Collins’ training portfolio includes instructor-led training, desktop and web-based tools, as well as full-motion flight training devices.

Training is just part of our unsurpassed level of support. Other services include product documentation, spares, on-site service and full warranty support.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Students perform troubleshooting and maintenance tasks, demonstrating their knowledge on the Hands-on Trainer. Their performance is scored and recorded. These scores are stored on the Training Management System server, which is integrated with all of the training device platforms (i.e., the Diagnostic Troubleshooting Trainer, Part-task Trainer and Hands-on Trainer) within the GVMT suite.

THE TRAINING CONTINUUM

GVMT products are just part of our full spectrum of cost-effective training solutions. As a world-leading avionics supplier, we provide an array of training solutions to ensure our customers get the greatest benefit from their avionics systems.

Rockwell Collins’ training portfolio includes instructor-led training, desktop and web-based tools, as well as full-motion flight training devices.

Training is just part of our unsurpassed level of support. Other services include product documentation, spares, on-site service and full warranty support.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Students perform troubleshooting and maintenance tasks, demonstrating their knowledge on the Hands-on Trainer. Their performance is scored and recorded. These scores are stored on the Training Management System server, which is integrated with all of the training device platforms (i.e., the Diagnostic Troubleshooting Trainer, Part-task Trainer and Hands-on Trainer) within the GVMT suite.

THE TRAINING CONTINUUM

GVMT products are just part of our full spectrum of cost-effective training solutions. As a world-leading avionics supplier, we provide an array of training solutions to ensure our customers get the greatest benefit from their avionics systems.

Rockwell Collins’ training portfolio includes instructor-led training, desktop and web-based tools, as well as full-motion flight training devices.

Training is just part of our unsurpassed level of support. Other services include product documentation, spares, on-site service and full warranty support.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Students perform troubleshooting and maintenance tasks, demonstrating their knowledge on the Hands-on Trainer. Their performance is scored and recorded. These scores are stored on the Training Management System server, which is integrated with all of the training device platforms (i.e., the Diagnostic Troubleshooting Trainer, Part-task Trainer and Hands-on Trainer) within the GVMT suite.

THE TRAINING CONTINUUM

GVMT products are just part of our full spectrum of cost-effective training solutions. As a world-leading avionics supplier, we provide an array of training solutions to ensure our customers get the greatest benefit from their avionics systems.

Rockwell Collins’ training portfolio includes instructor-led training, desktop and web-based tools, as well as full-motion flight training devices.

Training is just part of our unsurpassed level of support. Other services include product documentation, spares, on-site service and full warranty support.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Students perform troubleshooting and maintenance tasks, demonstrating their knowledge on the Hands-on Trainer. Their performance is scored and recorded. These scores are stored on the Training Management System server, which is integrated with all of the training device platforms (i.e., the Diagnostic Troubleshooting Trainer, Part-task Trainer and Hands-on Trainer) within the GVMT suite.

THE TRAINING CONTINUUM

GVMT products are just part of our full spectrum of cost-effective training solutions. As a world-leading avionics supplier, we provide an array of training solutions to ensure our customers get the greatest benefit from their avionics systems.

Rockwell Collins’ training portfolio includes instructor-led training, desktop and web-based tools, as well as full-motion flight training devices.

Training is just part of our unsurpassed level of support. Other services include product documentation, spares, on-site service and full warranty support.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Students perform troubleshooting and maintenance tasks, demonstrating their knowledge on the Hands-on Trainer. Their performance is scored and recorded. These scores are stored on the Training Management System server, which is integrated with all of the training device platforms (i.e., the Diagnostic Troubleshooting Trainer, Part-task Trainer and Hands-on Trainer) within the GVMT suite.

THE TRAINING CONTINUUM

GVMT products are just part of our full spectrum of cost-effective training solutions. As a world-leading avionics supplier, we provide an array of training solutions to ensure our customers get the greatest benefit from their avionics systems.

Rockwell Collins’ training portfolio includes instructor-led training, desktop and web-based tools, as well as full-motion flight training devices.

Training is just part of our unsurpassed level of support. Other services include product documentation, spares, on-site service and full warranty support.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Students perform troubleshooting and maintenance tasks, demonstrating their knowledge on the Hands-on Trainer. Their performance is scored and recorded. These scores are stored on the Training Management System server, which is integrated with all of the training device platforms (i.e., the Diagnostic Troubleshooting Trainer, Part-task Trainer and Hands-on Trainer) within the GVMT suite.

THE TRAINING CONTINUUM

GVMT products are just part of our full spectrum of cost-effective training solutions. As a world-leading avionics supplier, we provide an array of training solutions to ensure our customers get the greatest benefit from their avionics systems.

Rockwell Collins’ training portfolio includes instructor-led training, desktop and web-based tools, as well as full-motion flight training devices.

Training is just part of our unsurpassed level of support. Other services include product documentation, spares, on-site service and full warranty support.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Students perform troubleshooting and maintenance tasks, demonstrating their knowledge on the Hands-on Trainer. Their performance is scored and recorded. These scores are stored on the Training Management System server, which is integrated with all of the training device platforms (i.e., the Diagnostic Troubleshooting Trainer, Part-task Trainer and Hands-on Trainer) within the GVMT suite.

THE TRAINING CONTINUUM

GVMT products are just part of our full spectrum of cost-effective training solutions. As a world-leading avionics supplier, we provide an array of training solutions to ensure our customers get the greatest benefit from their avionics systems.

Rockwell Collins’ training portfolio includes instructor-led training, desktop and web-based tools, as well as full-motion flight training devices.

Training is just part of our unsurpassed level of support. Other services include product documentation, spares, on-site service and full warranty support.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.