

CAE Healthcare



Better prepared. Better performance. Better outcomes.

At CAE Healthcare we understand the importance of being prepared. That's why we're committed to providing comprehensive solutions – ones that help healthcare practitioners sharpen their clinical, individual and interprofessional skills and prepare for better patient outcomes.

We believe simulation-based education and training is much more than just using a simulator. Our team will work with you to help you achieve your goals. Through a proactive approach to understanding our customers' requirements, CAE Healthcare can help you select the best set of solutions for your environment. Our commitment to you is the delivery of easy-to-use, integrated educational solutions that meet your most rigorous training demands. When you choose CAE Healthcare you can expect reliability, valuable content and worldwide expert technical support.





Self-paced courses

Our courseware was designed to allow healthcare educators to deliver a structured educational program for best practices, while at the same time providing learners with a self-paced learning environment. We can help you transition to simulation-based learning by working closely with you to develop curriculum and integrate a customized solution in your educational program. We offer e-learning curriculum for bedside ultrasound and will soon be introducing courses for surgical and interventional procedures.

Curriculum on the use of bedside ultrasound

With more than 14 hours of online content organized in multiple modules and high-quality 3D animations developed by front-line intensivists, the CAE ICCU™ Imaging e-learning curriculum teaches healthcare practitioners how to perform focused bedside ultrasound evaluations. The curriculum is organized in an interactive format to provide a structured, systematic learning environment. Licenses are available for individuals or institutions seeking turnkey solutions. The e-learning curriculum can also be combined with onsite training seminars using our high-fidelity ultrasound simulator.



- Learn at your own pace, anytime, anywhere
- Acquire cognitive skills on key aspects of focused clinical ultrasound evaluations
- Validate knowledge in image interpretation, image acquisition and clinical applications
- Document students' performance and follow learners' progress



Educational collaboration with the American College of Chest Physicians.



Instructor-led (didactic) courses

Our curriculum methodology, which integrates simulation and modelling, ranges from creating learning programs to deploying classroom capabilities. Our current education and training programs include: Ornge's continuing education programs for transport medicine, CAE ICCU bedside ultrasound seminars, adult acute care code blue and interprofessional collaborative practice. Some of the features you can expect from our courses are briefing and debriefing sessions, simulation sessions, expert demonstrations, refresher sessions and personalized learning programs.

Transport medicine curriculum

CAE Healthcare has teamed up with Ornge, a leading provider of transport medicine, to offer comprehensive accredited educational programs that will prepare you to work as an elite aeromedical professional in transport medicine. The current programs are suited to a variety of levels of practitioners and several are accredited by the Canadian Medical Association (CMA).

- Consultation services to determine education needs and structure
- High-fidelity scenarios and debriefing technologies
- Highly skilled and certified lead educators
- Customized mobile high fidelity simulation platforms





Simulators - Imaging

CAE Healthcare is breaking ground in the development of cutting-edge educational solutions and innovative simulation technologies for the healthcare industry. Our objective is to offer healthcare professionals realistic and comprehensive tools to learn how to use multiple medical platforms before applying these skills on patients. We continuously strive to expand simulation training solutions that will result in improved patient safety, highly efficient multidisciplinary healthcare teams and superior clinical outcomes.

CAE VIMEDIX™ ultrasound simulator

Using real-time dynamic imaging and a custom-designed mannequin, the CAE VIMEDIX ultrasound simulator provides healthcare professionals with an unparalleled training environment for the thoracic, abdominal and pelvic cavities. Learners can perform a realistic echo assessment of cardiac structures, practice probe handling, develop hand-eye coordination and improve pathology recognition skills. The 3D animated heart can be independently cut and rotated to better understand the cardiac anatomy.



- Realistic environment with a variety of pathologies
- Versatile mannequin supporting TTE and TEE with palpable ribs/sternum, depressible abdomen and upper digestive tract
- Not just a heart – display of all surrounding structures: liver, ribs and sternum, superior and inferior vena cava, aorta, lungs, and vertebral bodies
- Self-learning features with standard, reference 2D views



CAE  VIMEDIX™

Ask us about our new Focused Assessment Sonography for Trauma (FAST) module.



Simulators - Minimally invasive interventions

CAE EndoscopyVR simulator

The CAE EndoscopyVR simulator is a platform that supplies a realistic training environment for both gastrointestinal and bronchoscopy procedures. A modular approach to learning allows students to practice skills and gain confidence in a safe environment prior to advancing to more difficult procedures. The EndoscopyVR simulator gives learners the ability to administer drugs, assess vital signs, has superior force feedback sensation, physiological and anatomically correct simulation, extensive didactic aids, and thorough metric reports.



- Dynamic force feedback (haptics)
- Appropriate physiological response and tool behaviour
- Normal and pathological anatomical variations derived from actual patient data
- Comprehensive metrics for evaluation of performance and configurable case parameters



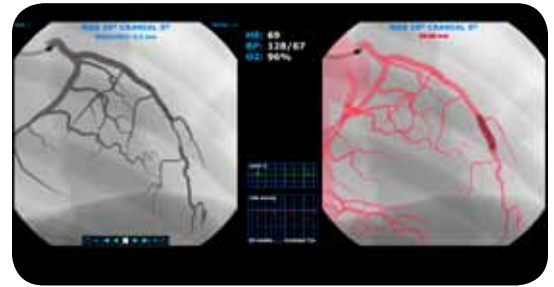
New! Upper Gastrointestinal (GI) bleeding module.



Simulators - Minimally invasive interventions

CAE CathLabVR simulator

The CathLabVR endovascular simulator helps learners practice skills for accessing and navigating diverse anatomical abnormalities encountered during cardiac and peripheral vascular procedures. Patented force feedback technology integrated with visual and audio responses mimics the look and feel of in-theater procedures. Learners are exposed to forces encountered when manipulating wires, catheters, balloons and stents within the virtual patient's anatomy. Repetitive practice and challenging cases allow users to sharpen their skills and increase their confidence in a risk-free environment prior to actual patient contact. In order to allow for ongoing learner development, users are debriefed with evidence-based metrics, outcome measurements and recordings at the conclusion of each case.



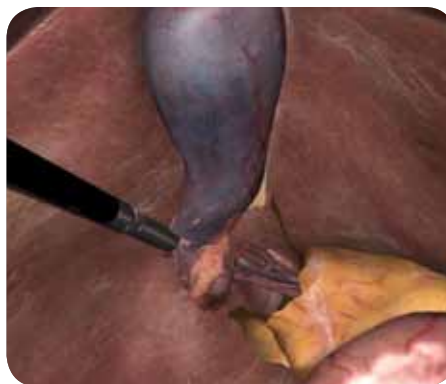
- Responsive physiology is reflected with changes in vital signs, hemodynamic wave tracings, and patient responses that enhance decision-making processes
- Superior force feedback (haptics)
- Post-case debriefing with recorded metrics providing analytical feedback for continuous trainee development
- Tool recognition feature enhances realism by automatically recognizing and responding to instrument insertion and removal



Simulators - Minimally invasive surgery

CAE LaparoscopyVR simulator

CAE Healthcare's LapVR simulator realistically reproduces laparoscopic procedures with accurate haptic technology. The LapVR system provides a variety of true training cases and scenarios with increasing levels of difficulty to allow clinicians to practice their skills before ever touching a real patient. By exposing users to a wider range of anatomy and pathologies, and providing risk-free opportunities to make mistakes, learners gain increased confidence and competence.



- Correct physiological response and tool behaviour
- Accurate force feedback visual and audio responses that mimic the look and feel of actual procedures
- Essential skills modules designed to train for Fundamentals of Laparoscopic Surgery Program (FLS)
- Detailed metrics for performance evaluation



Training centers

CAE Healthcare offers an array of services from turnkey solutions to specific services. Our value proposition consists of the delivery of superior customer experience, higher center throughput, keeping costs tightly in check, and freeing the center's leadership time to allow more time to focus on teaching and research. As CAE Healthcare expands its network of managed simulation centers, our customers will enjoy the benefits of belonging to a collaborative sphere and of CAE's years of experience and best practices from aviation simulation centers.

Management services

CAE Healthcare can provide you with operational peace of mind by efficiently handling every aspect of the day-to-day operation of a training center, from scheduling to delivery of courses and everything in between. We can manage a center, identify practice gaps and optimize resources, maximize return on investment, design and develop educational solutions, simulate/model systems and processes, and evaluate clinical outcomes.



Management services and education capabilities

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|---|------------|
| Stage 1: Needs analysis | Consulting |
| <ul style="list-style-type: none"> • Internal training needs analysis • Market needs analysis | |
| Stage 2: Project management | |
| <ul style="list-style-type: none"> • Project management from construction to ready-for-training | |
| Stage 3: Operations management | |
| <ul style="list-style-type: none"> • Daily training center management • Organizational chart management • Knowledge and resource transferability | |
| Stage 4: Education and training | |
| <ul style="list-style-type: none"> • Deploy e-learning on LMS • Embed simulation technologies in education | |
| Stage 5: Maximize return on investment | |
| <ul style="list-style-type: none"> • Marketing services • Proprietary customer management tools | |

Université de Montreal

Working closely with the Faculty of Medicine at the Université de Montreal, CAE Healthcare's team of instructors, simulation technicians and training center professionals provide assistance with day-to-day operations and delivery of courses. In the first year of operations, more than 75 workshops were jointly developed and implemented totaling approximately 25,000 instructional hours.



The Michener Institute for Applied Health Sciences

CAE Healthcare has partnered with the Michener Institute to manage the CAE/Michener Centre for the Advancement of Simulation and Education (CASE), a newly completed 20,000 sq.ft simulation center. CAE Healthcare's contribution started well before the center opened whereby CAE helped with final training center construction, change management and center business processes.

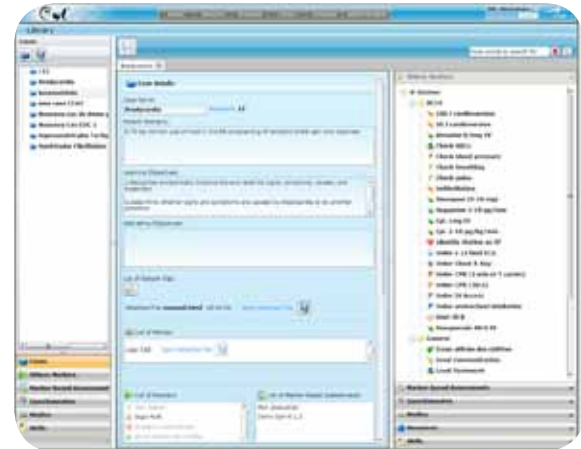




Training centers

CAE Owl™ - Center management system

CAE Owl™ is our newest simulation center management system designed to optimize the learning experience, simplify the logistics behind managing simulation center activities and improve the efficiency of your operations. CAE Owl is the only fully integrated and modular solution on the market, giving you the flexibility to start small and expand with additional modules as your requirements develop over time. Our dynamic platform is user-friendly and completely web-based to allow viewing of events or recordings from any location, whether it is inside the simulation center, hospital or from the comfort of your home.



- Effective briefing and debriefing with high quality video capture
- Centralized participant data and easy playback of recorded sessions
- Simplified scheduling and resource management
- Flexible, scalable system configuration



Consulting services

Enhancing your clinical outcomes by:

- Identifying practice gaps
- Simulation/modeling of systems and processes
- Designing and developing educational solutions
- Establishing measurable objectives
- Deploying simulation-based solutions
- Evaluating clinical outcomes





Student, CME/CPD participant or technician



Qualified and proficient healthcare professionals

CAE Healthcare's mission is to become healthcare's most trusted partner by leveraging our vast aviation simulation and crew resource management educational expertise to improve the safety and efficiency of healthcare. Our team consists of a unique mix of professionals including healthcare educators, aviation educators and clinical experts. Aviation and healthcare are both challenging and demanding environments where highly qualified professionals need to be trained to use complex technologies within a team environment. Our objective is to offer healthcare professionals the opportunity to learn using multiple simulation platforms before applying their skills on patients, thus reducing risk and improving patient safety. For years, CAE has been a world leader in simulation-based pilot and crew training. Today, CAE Healthcare services range from providing simulation-based education, to assisting you in the management of your training center and partnering with you in research.



To learn more about what our team can do for you, contact us today:

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