

BELL 505

CASE STUDY:

ELEVATING MILITARY TRAINING THROUGH TAILORED SOLUTIONS



ELEVATING MILITARY TRAINING THROUGH TAILORED SOLUTIONS

WHY TAILORED TRAINING MATTERS

Military organizations face unique challenges—tight budgets, diverse mission profiles, and the need for scalable instructor pipelines. Bell and the Bell Training Academy (BTA) deliver purpose-built training solutions that go beyond standard packages, ensuring operational readiness and long-term success.

Transition Training vs. Train the Trainer

TRAINING FEATURE	TRANSITION TRAINING	TRAIN THE TRAINER
Full aircraft familiarization	✓	✓
Academic systems, aerodynamics, and performance training	✓	✓
Simulator instruction for normal and emergency procedures	✓	✓
Flight training focused on aircraft handling and safety	✓	✓
OEM correct procedures and operational best practices	✓	✓
Fundamentals of Instruction academic course		✓
Add-on Courses: Night Vision Goggle (NVG) operations, tactical maneuvers, Inadvertent Instrument Meteorological Conditions (IIMC), Maintenance Test Pilot (MTP) training	Optional	Optional
Tailored instruction based on pilot history and performance (for instructors)		✓
Defensive posturing techniques		✓
“Game on” simulated student instructor scenarios		✓
Situational awareness and conservative decision-making (for instructors)		✓
Classroom teaching and briefing skills		✓
Left seat orientation class		Optional
Flight Training Device (FTD) lesson delivery training		Optional
Courseware development support		Optional
Annual standardization evaluation		Optional

CAUTION
ENERGY ATTENUATING SEATS
NO OBJECTS ALLOWED UNDER SEATS



DO NOT APPT
APPT

EMERGENCY
DO NOT SWITCH OFF





“ Bell doesn’t just train pilots. We build instructors who strengthen entire training ecosystems. ”

INSIDE BELL'S TAILORED TRAINING APPROACH

TRAIN THE TRAINER PROGRAM OVERVIEW

This specialized program prepares experienced pilots to become effective instructors. It goes beyond flying proficiency, focusing on instructional methods, tailored teaching approaches, and advanced piloting techniques.



Detailed Knowledge of Bell Aircraft

Instructor trainees develop a deep understanding of Bell aircraft systems and procedures, learning instructional techniques and advanced maneuvers that support safe instruction and informed responses to emergencies.



Safety and Standardization

The program reinforces anticipatory decision-making and consistent Bell teaching methods. Standardized practice help create predictable and safe outcomes.



Instructor Development

Instructor trainees learn practical teaching skills, including how to give clear briefings, lead classroom sessions, and read student behavior. Optional academic and simulator modules help deepen their expertise.

THE ADVANTAGES OF THE BELL APPROACH

Tailored Training for Future Instructors

- **Fundamentals of Instruction Course (prerequisite)**
Academic ground course that covers practical teaching techniques and student behaviors during flight instruction.
- **Individualized Approach**
Bell Training Academy (BTA) instructors adapt training to the specific needs of each student, ensuring maximum retention and skill development. This includes both initial and ongoing assessment of student performance, enabling tailored instruction and fostering a positive learning environment.
- **"Game On" Training**
"Game on" scenarios are a unique feature of the Train the Trainer program. In these sessions, experienced Bell pilots role-play as students and intentionally perform typical errors or unexpected actions. This allows the instructor to challenge the trainee to anticipate risks, adapt their teaching methods, and maintain control of the aircraft. The immersive training builds situational awareness, reinforces anticipatory decision-making skills, and prepares instructors to manage high-pressure scenarios confidently.
- **Defensive Posturing Techniques**
Instructors are trained to anticipate and mitigate risks during flight training, to help ensure the safety of both the aircraft and the student. Defensive posturing is a unique feature of the Train the Trainer program, where experienced Bell pilots equip instructors with the skills to manage those risks during training flights.

INSIDE BELL'S TAILORED TRAINING APPROACH

By continuously evaluating the student's performance, predicting common errors, and maintaining readiness to intervene, instructors instill techniques to help ensure the safety of both the aircraft and the student. This proactive approach includes briefing students on potential pitfalls, positioning for quick control adjustments, and creating a calm learning environment to prevent panic. Instructors prioritize conservative decision-making and simulate real-world scenarios to prepare students for unpredictable situations, making defensive posturing a cornerstone of safe and effective flight instruction.

Optional Instructor Development Add-On Training Modules

- **Academic Lesson Delivery Training**

This module strengthens an instructor pilot's academic lesson delivery skills. Trainees receive targeted academic instruction that strengthens system knowledge across the entire aircraft. The course prepares instructors to explain complex concepts clearly, answer student questions with confidence, and create a supportive, effective learning environment where students can grow and succeed.

- **Flight Training Device Lesson Delivery Training**

This module strengthens an instructor pilot's ability to deliver effective simulator-based lessons. Using the Flight Training Device (FTD), trainees learn to teach high-risk or complex scenarios that cannot be safely practiced in the aircraft, reinforcing precise and confident instruction of emergency procedures.

OEM BENEFITS



Depth of Expertise

As the Original Equipment Manufacturer (OEM), Bell offers insights and training that non-OEM facilities cannot match, ensuring instructors are equipped with the most accurate and detailed knowledge.



Supplier Access

Opportunity to interact with major suppliers such as Safran, Pratt & Whitney, Rolls-Royce, and avionics manufacturers like Garmin for in-depth training on key components and systems.



Direct Connection to Subject Matter Experts

Access to engineers and subject matter experts for more in-depth explanation of systems and processes.

INSIDE BELL'S TAILORED TRAINING APPROACH

FLEXIBILITY AND CUSTOMIZATION

- **Tailored Solutions:** Bell can customize training programs based on customer requirements, whether it's focusing on specific maneuvers (e.g., vortex ring state recovery) or adding advanced coursework like NVG operations or tactical approaches.
- **Adaptability:** Bell Training Academy has a proven track record of creating new courses, such as the Maintenance Test Pilot course, in response to customer needs.

Example of Add-on Courses

- **The Maintenance Test Pilot (MTP) Course:** A specialized training program designed to prepare pilots and maintenance personnel to conduct return-to-service flights after maintenance has been performed on Bell aircraft. This course bridges the gap between maintenance procedures and flight operations, ensuring that both pilots and mechanics understand the technical and operational requirements for properly returning an aircraft to service.
- **Inadvertent IMC (Instrument Meteorological Conditions) Course:** A specialized training program designed to prepare pilots for unexpected transitions from visual flight to instrument flight due to deteriorating weather conditions. A typical class includes hands-on simulator training and flight exercises that focus on recognizing IIMC scenarios, executing recovery procedures, and maintaining situational awareness to ensure safe outcomes. Pilots gain critical skills in decision-making, aircraft control, and emergency navigation under challenging conditions.
- **Night Vision Goggle (NVG) Training:** Bell offers FAA-approved FAR Part 61/141 NVG training courses, including pilot initial and refresher programs, utilizing both white and green phosphor technologies. Delivered in the classroom and in the air for the Bell 505 and other platforms, such as the Bell 407, Bell 429, and Bell 412, the course trains aviators in night operations and key design considerations.

TAILORED TRAINING DEVELOPED SIDE-BY-SIDE WITH YOUR UNIT

Bell works closely with each customer to understand their mission, resources, and training goals. Our team remains flexible and ready to adapt the program so it aligns with operational requirements and helps units build the capability they need on their terms.

CHOSEN BY MILITARIES WORLDWIDE

Around the world, militaries are choosing the Bell 505 as a primary platform for developing new pilots. Forces in Montenegro, Bahrain, Iraq, Jordan, Jamaica, South Korea, and the United Arab Emirates rely on the aircraft to build capable aviators from day one. Many of these customers also partnered with the Bell Training Academy for tailored training support, including instructor development, maintenance test pilot coursework, and tailored Bell 505 training programs.

With its advanced flight deck, FADEC engine, and forgiving handling characteristics, the Bell 505 gives students a balanced learning environment that supports safe and confident skill development. When paired with Bell Training Academy’s tailored instruction, these customers build pilot pipelines that are stronger, more consistent, and better aligned with their mission requirements. The aircraft’s global adoption reflects both its capability and the value of the training solutions that support it.

ROTORCRAFT TRAINING CUSTOMERS



Bahrain



Iraq



Jamaica



Jordan



Montenegro



South Korea



United Arab Emirates

+ Multiple civilian flight schools globally

100+

airframes currently committed to pilot training around the world

FREQUENTLY ASKED QUESTIONS

SUGGESTED QUESTIONS AND ANSWERS

1. Is Train the Trainer a certification program?

No. The program does not result in a formal flight instructor certification. It is designed to enhance instructional skills for experienced pilots, not to replace regulatory certification requirements.

2. Who is eligible for Train the Trainer?

Experienced pilots with prior instructional experience. The program builds on existing skills and adds advanced teaching techniques, safety-focused methods, and tailored coursework.

3. How is Train the Trainer different from the left seat orientation class?

The left seat orientation class is a short familiarization course (2–3 hours) focused on seat position differences. Train the Trainer is a comprehensive program with 25–40 additional flight hours, academic depth, and immersive scenarios like “game on” training.

4. Does Bell offer maintenance instructor training?

No. Train the Trainer is exclusively for pilots. Bell does not offer a maintenance instructor training program. However, Bell does provide field maintenance and integrated avionics classes designed to build confidence and capability in maintenance personnel.

5. Can Train the Trainer be customized?

Yes. Bell can tailor the program to include advanced coursework such as NVG operations, tactical maneuvers, or emergency procedure training. Additional modules like Maintenance Test Pilot and IIMC recovery can also be added.

6. Does Bell support ab initio (primary) training?

While Bell does not primarily market ab initio training, it can support military customers in establishing primary training programs as part of a broader tailored solution.

7. Does Bell provide ongoing support after training?

Yes. Bell offers a global support network, access to subject matter experts, and options for refresher courses or advanced add-ons to maintain operational readiness.

8. Does the program include simulator training?

Yes. Optional Flight Training Device (FTD) sessions allow instructors to practice emergency maneuvers and scenarios that cannot be safely replicated in flight.

9. Can Bell customize training for specific mission profiles?

Absolutely. Bell has a proven track record of creating new courses for unique operational needs, including tactical approaches, NVG operations, and maintenance test pilot training.

READY TO BUILD YOUR TRAINING PROGRAM?

Collaborate with Bell to create a tailored training solution that meets your mission needs. From instructor development to advanced coursework, Bell stands ready to serve your operation.

Contact Bell Training Academy today to discuss your custom training requirements. Call us any time at +1 817 280-2011



bell.co/trainer

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