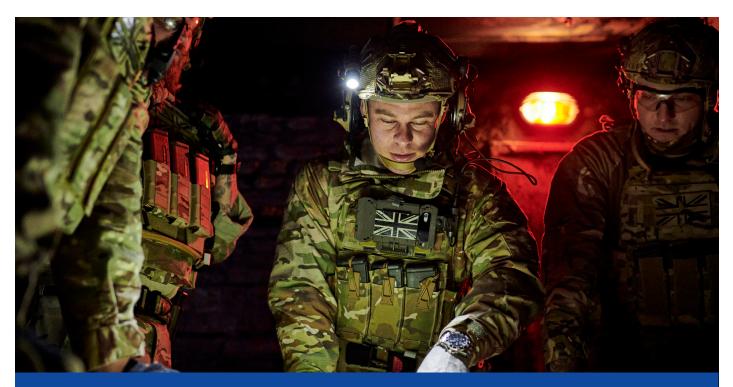# babcock ™

Babcock Immersive Training Experience (BITE)

In an increasingly complex and contested world, where the threat of war, natural disasters and geopolitical instability is constant; operational commanders and specialists must be ready to face emerging and dynamic challenges, arising at home and abroad. Training must evolve to produce challenging, adaptable, technologically-enabled realistic environments in order to deliver high performance individuals and teams who are prepared for the realities of modern conflict and multi-faceted national resilience operations.

With omnipresent media coverage, worldwide operations are universally conducted in the public eye, layering external pressures to already complex situations. More than ever operators are under scrutiny and pressure to perform to the highest standards, in the most demanding of circumstances.

Babcock Immersive Training Experience (BITE)

BITE produces specifically layered and operationally accurate soundscapes, seismic simulation, visual stimuli, generated aromas and environmental control that enables real-time adaptable operationally accurate scenarios. The ability to dynamically control the intensity of training exercises, ensures consistent delivery of optimal training to enhance outcomes.

BITE is a scalable, deployable and modular solution that has been designed and built to rapidly train and inoculate personnel to the most challenging and high-pressure events, found across defence and resilience landscapes. BITE's robust modular construction allows the system to be deployed across any live, virtual and constructive domain. This greatly reduces or removes the requirement for personnel, logistics, time and costs of high value training.

Immersive control

With all visual, audio and biometric feeds being monitored from an external control room, there is no break in reality for trainees. Full control of both the environment and information injects enables the intensity of the experience to be adjusted in real time to retain trainees both in the Zone of Optimal Learning (ZOOL) in line with prescribed training outcomes. This immersion and emotional engagement brings trainees closer to the realism of front line operations than ever before, delivering high risk and fidelity training in a safe and controlled environment.

Data capture and analysis

The key to measurement and remediation is the ability to capture and act on insights from objective data. BITE enables rapid analysis of insights to enhance the effectiveness of after-action reviews and enable trainees to fail fast and adapt to find new ways to succeed.

The ability to capture granular exercise data over time enables trend analysis and the optimisation of individual, team and organisational performance. BITE, by design, can operate as a standalone module or as part of an interconnected network.

Granular layering of injects

BITE uses advanced game engine software to maintain measurement and control of the experience, this allows for specific immersive effects to be layered for granular environmental control to ensure optimum cognitive load and engagement with the experience.

This unlocks the ability to subject trainees to the realistic stresses of modern combat and resilience operations.

Future proof

The system has been designed alongside partner SMEs and academics, with features to integrate with bleeding edge technology and permit easy integration of additional technology.

At a glance – key facts

› BITE is an immersive urban training environment that replicates the physical, sensory and cognitive challenges of operating in an urban environment.

› It is a safe, efficient and affordable solution for individual and collective training.

› BITE includes human performance monitoring to rapidly deliver high performance personnel and teams.

› BITE can be adapted to any real operational environment to incorporate a range of training needs, with changes to aesthetics and environmental aspects based on the customers' needs.

› BITE provides multi-point, time stamped data analysis for targeted after action review (AAR).