ICE-TE
Interactive Cognitive Engagement Training and Evaluation
When deciding what to do in a life-or-death situation, the armed professional must react quickly to surrounding chaos while processing the legal framework or rules of engagement. Cognitive overload seeps in by the second and can overwhelm the professional.

Paradoxically, there has been no structured means of training and performance measurement for the human aspect of lethal engagements. Until now.

910 Factor’s ICE-TE solves this issue. By focusing its technology on human experience and performance.
The challenge

Simulation technologies try to address this challenge. But visual and operational realism aren't the same.

This is why 910 FACTOR developed the ICE-TE.

The ICE-TE develops technical and tactical skills while facing the cognitive challenges of real-life confrontations, as well as provide objective metrics for a personal return on experience for the trainee.

Society expects an ideal from those who protect its members, defend its interests and wield lethal force in its name: competence, perfect judgement and courage.

For law enforcement: “protect and serve” comes down to the preservation of innocent life and de-escalation of conflict without undue risk to officers.

For the military: Fulfill complex aims and challenging missions in hostile environments, within the rules of engagement.

Practically, these demands correspond to elite cognitive performance and emotional control in threatening, volatile and complex situations.

Effective preparation for these demands requires tools to measure and assess decision-making and firearms proficiency under extreme pressure.
The ICE-TE is an immersive, technological environment, build around a reflective target.

Trainees confront real humans enacting unscripted scenarios using live fire.

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**Personal responsibility and engagement mirror real-life conflict situations with use of unmodified weapons and live fire.**

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The operator must autonomously assess options and decide to act in an interactive and unpredictable environment.

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Realism & intensity replicate the information overload and emotions of the confrontation to a “real threat”.

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Patented technology provides accuracy results, dynamic shot sequence reconstruction, biometric data and user/trainee behavioral analysis.
THE ICE-TE

TRAINING THAT FITS THE REAL-WORLD NEEDS OF DEMANDING PROFESSIONS

OUTCOME: SHOOTING FOR THE REALITY OF PROFESSIONAL ENGAGEMENT
- Complex sequences not replicable on a traditional range.
- Optimal testing & training validation.
- Accuracy on moving “live” targets.
- Muscle memory + equipment validation.
- Creative drills for tactical units.

OUTCOME: INTERACTIVE
- Unknown, free-flowing situation
- Decision-making autonomy
- Actions impact the outcome

OUTCOME: LIVE FIRE
- Projected threat
- Responsibility
- Skill validation

OUTCOME: IMMERSION
- Sensory engagement
- Information overload
- Emotional aspects of a confrontation

OUTCOME: STRESS RESILIENCE TRAINING
- “Stress inoculation” in a safe and controlled environment.
- Self-knowledge (reality check on operational preparedness).
- Emotional control training (facing aggression, insults, anger)/PTSD risk mitigation.
- Structured feedback through biometrics and comprehensive performance.

OUTCOME: DISCERNMENT AND EXPERIENCE
- Situation, risk, and threat assessment experience.
- Crisis identification.
- Integration of legal scope, ROE.
- Conflict de-escalation.

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Learn more
The purpose of the ICE-TE is to expand on technical and tactical training. The system enables development of a versatile, quantifiable, progress-oriented training regimen. Trainees can be repeatedly immersed in unfamiliar interactive situations, living the psychological aspects of a live-fire fight/conflict, with quantifiable evaluation of technical results (firearms accuracy) and behavioral aptitude (decision-making and resilience to stress).
**THE VALUE**

**Competency as an outcome for professionals**
Self knowledge with unique return on experience completely relevant to training focus.

**Feedback and analytics for instructors**
Each sequence yields an individualized data package including video feed, heartrate, gaze tracking and accuracy, for in depth analysis and progress benchmarking per trainee.

**DATA-SET PER SEQUENCE**

- **GAZE TRACKING**
- **HEART RATE**
- **ACCURACY**
- **TIMING**
- **VIDEO FOOTAGE**

**A flexible tool that meets multilateral imperatives for institutions**
Relevant no matter the technological advances and limited only by the creativity of its users.

There are no libraries of scripted training scenarios to be updated, no need for add-on equipment.

**Simple in concept and robust in design, the technology doesn’t expire.**
The effect and value will remain the same until humans stop bearing the mandate of lethal force.

**910.factor**
The ICE-TE’s approach to live fire training focuses on the human factor of an engagement. By technically and cognitively challenging the professional in situations where the use of lethal force might be required, the system provides the missing link of training.