

# HUMAN PERFORMANCE MONITORING, PLANNING AND MANAGEMENT

charles river analytics



Are your personnel prepared?

Will they perform their jobs successfully?

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When personnel in your organization encounter high-acuity scenarios, everyone involved needs to know that they are ready to perform.



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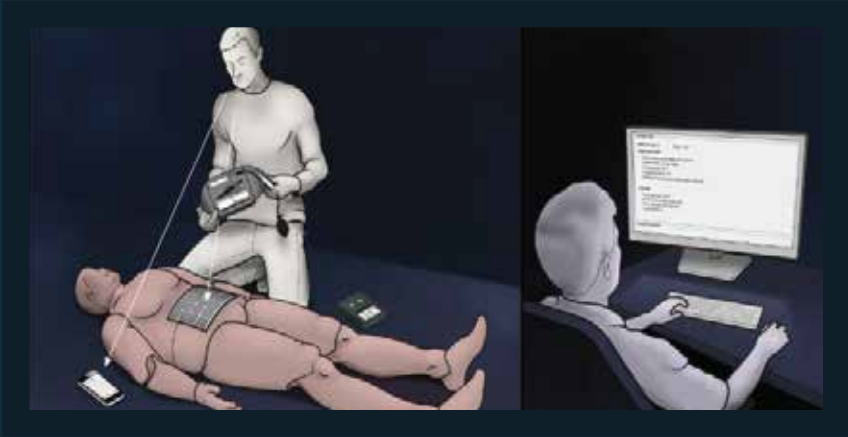
Our scientists and engineers have specifically developed processes, software, and hardware to measure and evaluate how well a trainee will perform when facing the pressures that occur in their job environment. We offer the following:

**State Assessment** – Both qualitative and quantitative continuous testing of operators during training or in live clinical environments to spot situations in which pressures could later become significant problems.



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**Performance** – Objective evaluation of trainee performance on target knowledge, skills, and tasks.



**Readiness** – Getting ahead of changes that will influence future individual and team performance during continuously evolving operations.



When you select Charles River Analytics' technology to help monitor, plan, and manage human performance in training and practice, you'll be confident that your personnel will perform well and be confident that they are prepared for high acuity scenarios.

Our proprietary processes and tools ensure that your training is effective, that trainees master the critical skills required for their job, and that team leaders understand how environmental stressors and workload will impact their team.

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# Measuring Cognitive Workload During Training

Charles River Analytics worked closely with NASA to assess and measure astronaut workload and performance. We applied our proprietary tools, software, and hardware systems to measure cognitive workload during training and on the job.

From this data, we evaluated the effectiveness of NASA's training programs to ensure that astronauts were ready for the rigors and unpredictable nature of space operations. The measurement system (CAPT PICARD) can also be deployed during space missions to inform astronauts and Mission Control when performance begins to deteriorate, so they can take action before a crisis occurs.

Laboratory scientists in other fields have applied the insights we discovered from working with astronauts to evaluate the effects of new tools and approaches on task performance and accuracy.

Workload for individuals and teams during live medical training can help assess how comfortable, confident, and ready your team is to perform.



## About Charles River Analytics

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Founded in 1983, Charles River Analytics is an Employee-Owned Small Business, now with nearly 200 employees, many of whom hold advanced degrees. Our clients are a “who’s who” of government and industry. The original focus of our business was working with the Department of Defense, and we continue to enjoy ongoing relationships supporting DoD, Army, Air Force, and Navy organizations. Today, our relationships with clients throughout government and industry enable us to bring best-in-class research and ideas to the projects we undertake for our customers.

We work with our clients to translate new ideas and research into actionable solutions to the opportunities most important to their success. Charles River Analytics has a solid track record of success in providing our clients with AI systems, technology, software tools, and design and analytic services in a variety of settings. In recent years, we have worked defense, intelligence, medical technology and health care, training, transportation, space, cyber security, and more.



U.S. Prime Contractor



Employee-owned Small Business

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