Advanced Learning Solutions

Applying the latest technologies to address the training needs of defense and other federal clients

Today's learners do best with approaches beyond the traditional teaching and learning methods. While new approaches to learning and advances in training technology are key enablers, the net output of any training system must still be a fully qualified, engaged, and capable military workforce ready to take on its role.

Concurrent Technologies Corporation's (CTC's) innovative training tools, technologies, processes, and subject matter experts can help build a resilient and operationally ready workforce. We are continually at the forefront of learning technology, from our work in early virtual reality in the 1990s to our activities with generative instructional Large Language Models (LLM) and 3D avatars today.

What we do:

- Workforce Development
- Online, Instructor-Led, and Blended Training Solutions
- Artificial Intelligence (AI) and Machine Learning (ML) Solutions
- Immersive Environments / Research and Development
- Strategic Communications

CTC Concurrent Technologies Corporation

www.ctc.com

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CTC's Advanced Learning Capabilities

- Workforce Development & Training Programs: Collaborating with partners to equip the workforce with the skills needed for today and tomorrow.
- Flexible Online & Blended Learning Platforms: Designing online and versatile learning systems that combine digital and in-person educational strategies.
- Simulation & Immersive Learning Environments: Leveraging cutting-edge simulation technologies to create realistic training experiences.
- AI/ML-Powered Adaptive Learning: Employing artificial intelligence and machine learning to tailor educational content and improve learning outcomes.
- Software Development & System Integration: Building custom education and training software solutions and ensuring seamless integration with existing systems and technologies.
- Security Solutions: Implementing robust security protocols to protect user data integrity and privacy.
- Cloud Architecture & Deployment: Utilizing cloud technologies for scalable, efficient, and secure learner data management and education and training operations.
- DevSecOps Practices: Integrating agile development, security, and operations for streamlined and secure delivery of education and training software solutions.
- Data-Driven Metrics & Performance Analytics: Developing analytics to measure and guide the success of education and training initiatives.
- Communication Strategies: Executing tailored communication plans and outreach products that effectively reach and engage key audiences through compelling narratives and visual content.

Workforce Development

Our workforce development solutions bridge the gap between employers' needs and workers' competencies. We identify in-demand jobs and emerging industries, then help to design and deliver targeted training programs. This includes collaborating with educational institutions, businesses, and community organizations to create courses, apprenticeships, and certifications. Our goal is to equip individuals with the knowledge and skills they need to secure high-growth careers while strengthening the workforce and regional economies.

Online, Instructor-Led, and Blended Training Solutions

We understand how online learning, communities of practice, gaming, simulation, and exercises work together to provide the highest fidelity learning experiences at the best overall value. As an early leader in the DoW's Advanced Distributed Learning initiative to modernize training, CTC enhances and standardizes complex workforce training using a system of systems methodology, open architecture standards, and international learning standards–delivering training transparency across an enterprise. CTC delivers training solutions that include computer-based and classroom-based training, instructor-led training, and customized training solutions and the underlying Total Learning Architecture.

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Artificial Intelligence (AI) and Machine Learning (ML) Solutions

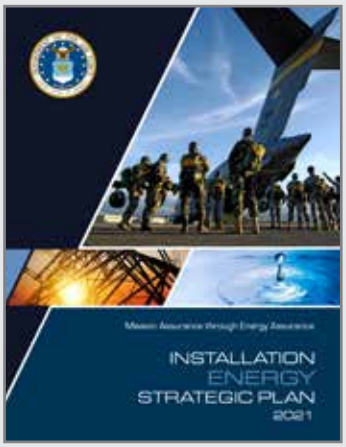
CTC leverages AI and ML to make training development more timely and affordable. We use AI to provide learners with personalized performance feedback, reducing the reliance on expensive human resources. Embodied as 2D, 3D, or chat box avatars, we use ML to train AI bots to become helpful subject matter experts within simulation that can consult on learning topics such as materials corrosion or cybersecurity and that can serve as Non-Player Characters (NPCs) in your learning games and simulation. We deploy solutions that utilize the latest LLMs on public web, private cloud, or locally. Additionally, we can expedite and enhance solutions using AI-assisted writing, graphics, videos, and voice acting, significantly lowering development time and costs while maintaining a high standard of quality.

Immersive Environments / Research and Development

We consistently invest in research and development, with a particular focus on innovations specific to simulation and training, designed to replicate the real-world locations, work tools, and processes for our customers who operate in high-stakes, mission-critical environments. Our engineers and technical experts are at the cutting edge of digital solutions, leveraging advancements in AI, ML, cloud computing, extended reality, adaptive learning, and more.

Strategic Communications

At CTC, our Strategic Communications expertise extends beyond compelling outreach, embracing policy analysis, strategic planning, and the development of key performance metrics. We integrate these elements to forge clear, data-backed communication strategies that align with and advance organizational objectives. Our approach prioritizes engaging narratives and optimal user experiences, ensuring messages not only reach but deeply connect with target audiences. This holistic method empowers our clients to effectively communicate complex ideas and achieve measurable success in their initiatives. Our experienced team supports a long list of government and industry clients on high-profile communications, media, and outreach efforts. Whether it's a strategic plan, an annual report, logo, video, website, social media, or integrated campaign, our solutions are designed to ensure our clients' success.



Platinum Hermes Creative Award, Department of the Air Force Installation Energy Strategic Plan

Gold MarCom Award, U.S. Army Medical Command (MEDCOM) Sustainability Report

Platinum MarCom Award, Gold Service Industry Advertising Award, Gold Hermes Creative Award, CTC FY24 Annual Report

Platinum MarCom Award, Defense Health Agency (DHA) Sustainability Report

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Concurrent Technologies Corporation (CTC) is an independent, nonprofit, applied scientific research and development professional services organization. CTC collaborates with its technology transition affiliate, Enterprise Ventures Corporation, to leverage research, development, test and evaluation work to provide transformative, full life-cycle solutions. To best serve our clients' needs, we offer the complete ability to fully design, develop, test, prototype, and build. We deliver robust, technical, and innovative solutions that safeguard our national security, retain U.S. technological advantage, and ensure the primacy of American manufacturing.

CTC is a leader in quality and environmental management systems. Visit our Quality Commitment webpage for more information.

Quality Commitment | Concurrent Technologies Corporation (ctc.com)

www.ctc.com

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