

TRAINING AND WORKFORCE DEVELOPMENT

Hybrid Learning • Web Interactive Learning • Motion Graphics • Video Editing • Visual Design • Human-Centered Design • Virtual Live Training (VLT)

CMQ 242

GD&T and Measuring Techniques



Client Info

The Defense Acquisition University (DAU) is the Department of Defense's central training institution for acquisition professionals. DAU equips the Defense Acquisition Workforce with the skills and knowledge needed to deliver effective, affordable warfighting capabilities, strengthening national security through agile, mission-ready acquisition support.



Challenge

DAU sought to enhance the real-world readiness of Quality Assurance Specialists (QAS) by developing an immersive simulation that trains them to perform dimensional inspection and measurement tasks. The primary challenge was replicating the complex, hands-on skillset of interpreting engineering models, selecting proper tools, and performing accurate measurements in a virtual training environment—ensuring transferability to field performance.



Solution

CTEC developed a simulation aligned with CMQ 242 course. This HTML5-based, interactive 3D simulation mirrors field inspection tasks, guiding learners through tasks like selecting tools, calibrating instruments, and interpreting results. Built using three.js, it offers randomized scenarios for varied practice. A character-driven interface enhances engagement, while embedded feedback and debriefs reinforce learning.