A portable system of electromechanical and electronic hardware and documentation has been developed as an automated means of instructing technicians in matters of safety and quality. The system enables elimination of most of the administrative tasks associated with traditional training. Customized, performance-based, hands-on training with integral testing is substituted for the traditional instructional approach of passive attendance in class followed by written examination.

The system includes four workstations, accommodating up to eight students. The system simulates hazardous conditions (without exposing students to real hazards) and quality or safety discrepancies that students are required to recognize and for which the students are required to perform corrective actions. The system enables students to demonstrate knowledge gained from previous training and work experience. The system provides remedial training for each student who does not perform satisfactorily in a simulation.

This work was done by Pete T. Scobby of United Space Alliance for Johnson Space Center. Further information is contained in a TSP (see page 1). MSC-23232-1.