

# The Reduced Crew Size Calibration and Maintenance Tool (RCS-CMT)

The NAWAS Metrology R&D Program developed the RCS-CMT system to reduce shipboard maintenance labor hours for supporting HM&E systems. This is accomplished by eliminating or automating steps in the maintenance and calibration of shipboard installed instrumentation. With the RCS-CMT approach, the maintenance technician uses a wearable PC as an electronic book for viewing web based maintenance cards. A smart button reader is attached to the wearable PC and serves as a data collection system to identify the unit under test. A portable standard pressure calibrator is automated by the PC for semi automated pressure gage calibration, and a wireless Local Area Network (LAN) allows the computer to serve as a communication tool to provide Distance Support, embedded training and to transmit data collected during maintenance.



**Figure 1**

NAVSSES technician evaluates the RCS-CMT system at LPD-17 test site as representatives from NAWAS and Naval Post Graduate School provide evaluation support.