

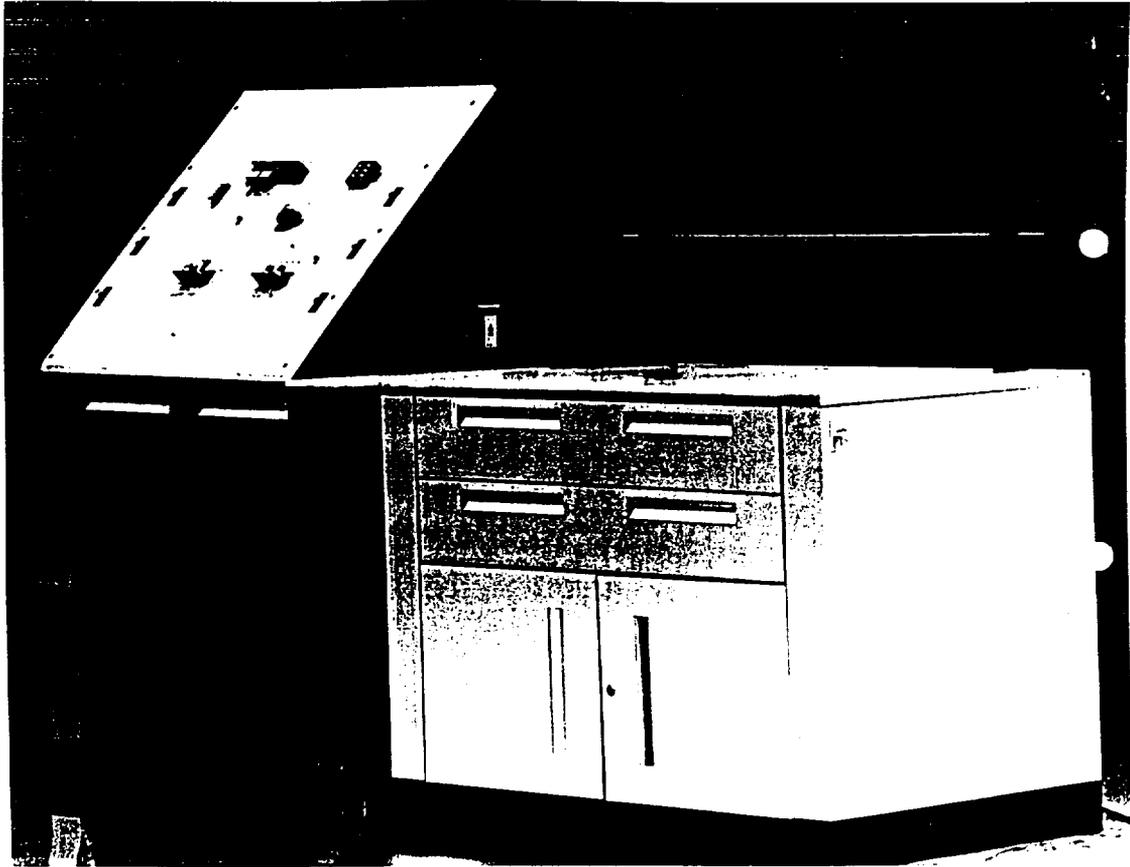
**SUMMARY OF  
AIRCRAFT WIRING PRACTICE TRAINER**

**SEPTEMBER 1995**

**DEVICE 6E10A**

**NAVAL AIR WARFARE CENTER  
TRAINING SYSTEMS DIVISION**

**ORLANDO, FLORIDA**



**TRAINING CATEGORY:**

Basic Science (electricity)

**ORIGINATING AGENCY:**

CNO/AIR

**SECURITY CLASSIFICATION  
OF DEVICE:**

Device 6E10A is unclassified.

**PURPOSE OF DEVICE:**

Develop Navy students' proficiency in performing aircraft wiring operations.

**INTENDED USE:**

By reading a schematic and wiring a simple circuit, the student acquires basic soldering, desoldering, and wiring skills, and learns to make spade lug connections.

**FUNCTIONAL DESCRIPTION:**

Device 6E10A Aircraft Wiring Practice Trainer is a group of 25 6E10 student workstations and 2 instructor stations, which provide a classroom setup for performance of aircraft wiring operations training.

The student stations contain a tool drawer with a shadow box layout for the location of tools used in training. They contain a work platform that has electronic components and torque bolts, circuit breakers, toggle switches, lamps, a relay, a large resistor, and a multi-pin connector and jack. The platform has posts large enough to allow students to practice wiring according to schematics and 6 steel bolts threaded through tapped holes to allow students to practice torquing and safety wiring.

The two instructor stations contain shadow box tool drawers similar to the student stations. The instructor stations have an additional drawer and a lockable steel cabinet for storage.

Each instructor station also has a wire rack mounted on the top rear of the station that allows for easy removal and replacement of wire spools.

**PHYSICAL DESCRIPTION:**

Student station:

36" wide by 24" deep steel workbench

30" wide work platform mounted on top of the workbench at a 45-degree angle

Instructor station:

48" wide by 30" deep steel workbench

**EQUIPMENT REQUIRED (Not Supplied):**

Fluke Model 77 Digital Multimeter (or equivalent)

**POWER REQUIREMENTS:**

Student station: 28-VDC internal power supply; 115-VAC Ground Fault Circuit Interrupt outlet for supplementary external power

Instructor station: None

**PUBLICATIONS FURNISHED:**

6E10/10A/11 Operations and Maintenance Manual, P-7190 (U).

6E10/10A/11 Training System Utilization Handbook, P-7191 (U).

**PERSONNEL REQUIREMENTS:**

Instructor (Chief or 1st Class Petty Officer)

Trainees (Class of up to 25 members)

**CONTRACT IDENTIFICATION:**

Manufactured by Essex Corporation, Space and Defense Division, Huntsville, Alabama, under NAVAIRWARCENTRASYS DIV contract No. N61339-94-C-0035

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