

Cape Cod Community College AMTS

Practical Project Guide for AMT 259 Engine Fire Protection Systems, Subject Item 11

Part 147, Appendix D, Part 2, Subject B. Engine Fire Protection Systems

Item 11. Inspect, check, service, troubleshoot, and repair engine fire detection and extinguishing systems (Level 3)

Project 1

Purpose: To familiarize the student with the principles of inspecting, checking, servicing, troubleshooting, and repairing an engine fire detection and extinguisher system.

References:

- (1) 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Powerplant, Volume 2 (FAA-H-8083-32), Chapter 9
- (2) AVOTEK AS360 Operation Manual

Equipment and Tools Needed:

- (1) AVOTEK AS360 Fire Detection and Extinguishing System Trainer
- (2) Multimeter
- (3) Industrial Heat Gun

Supplies and Materials Needed:

- (1) N/A

Procedure:

- (1) The student will inspect, check, and service the AVOTEK AS360 Fire Detection and Extinguishing System trainer as per the Trainer Operation Manual.
- (2) The student will troubleshoot and repair the fire detection and extinguishing system of electrical shorts, opens and incorrect voltage readings.
- (3) The student will service the fire extinguisher bottle (simulated), following all safety guidelines as per the Trainer Operation Manual.

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