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**INSTRUCTOR'S LESSON PLAN P-18**  
5-Jan-03

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**TOPIC:** A/S32P-18 Water Distributor

**LEVEL OF INSTRUCTION:** 3

**OBJECTIVE:** To qualify the student as a Driver/Operator on the vehicle. Upon completion, the trainee will complete the written test with a minimum passing score of 80% and zero safety violations on the Qualification Drive.

**MATERIALS NEEDED:** A/S32P-18, Technical Order (T.O.) 36A12-23-19-1, CEF OI 24-1, Vehicle Maintenance, CEF OI 32-1, Emergency Response On/Off Base, AFTO Form 88's, AF Form 1812, IFSTA Fire Department Pumping Apparatus/Fire Streams, NFPA Standard 1002 Fire Department Driver/Operator Vehicle Qualification Standards, NFPA Standard 1901 Motorized Fire Fighting Apparatus and an evaluation checklist.

**PRESENTATION**

TEACHING OUTLINE	NOTES AND REFERENCES
<b>1. GENERAL INFORMATION</b>	
A. Preventive Maintenance (1) Perform routine inspection and servicing (2) Determines vehicle readiness	T.O. 36A12-23-19-1  <b>Application:</b> Perform Daily Vehicle Inspection
B. Inspection Documentation (1) Use appropriate AF Form 1812 (2) Properly completes AF Form including new month preparation (3) Make proper notifications of noted discrepancies	AF Form 1812
C. Vehicle Safety (1) Safe emergency response procedures (2) Vehicle positioning on aircraft (3) Stress all Warnings and Cautions throughout the lesson	CEF OI 32-1  AFTO 88's T.O. 36A12-23-19-1
D. Specifications (1) Gross Weight (2) Height (3) Width (4) Length (5) Ground Clearance (6) Chassis (7) Fuel (8) Fuel Capacity (9) Turning Circle	T.O. 36A12-23-19-1
E. Engine (1) Type (2) Oil Specification (3) Oil Capacity	T.O. 36A12-23-19-1

TEACHING OUTLINE	NOTES AND REFERENCES
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| <ul style="list-style-type: none"> <li>F. Transmission</li> <li>(1) Type</li> <li>(2) Oil Specification</li> <li>(3) Oil Capacity</li> <li>(4) Normal Operating Temperature</li> </ul> | T.O. 36A12-23-19-1 |
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**INTERIM SUMMARY**

<b>2. NON-FIRE FIGHTING SYSTEMS</b>	T.O. 36A12-23-19-1
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- A. Electrical System
  - (1) Alternator Output
  - (2) Batteries
  
- B. Tires
  - (1) Type
  - (2) Size
  - (3) Inflation Pressure
  
- C. Winterization System

**INTERIM SUMMARY**

<b>3. Fire Fighting System</b>	T.O. 36A12-23-19-1
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- A. Water Tank
  - (1) Capacity
  - (2) Fill Connections
  
- B. Foam Tank
  - (1) Capacity
  - (2) Fill Connection
  
- C. Water Pump
  - (1) Make
  - (2) Model
  - (3) Capacity
  
- D. Foam System
  
- E. Accessory Equipment
  - (1) 5000 Watt Generator
    - (a) Type
    - (b) Fuel
  - (2) Smoke Ejector
    - (a) Make
    - (b) Voltage
    - (c) Capacity
  - (3) Tools & Equipment

TEACHING OUTLINE	NOTES AND REFERENCES
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- F. Hose Capacity
  - (1) 1 3/4"
  - (2) 2 1/2"
  - (3) Booster Line

#### 4. PUMP OPERATIONS

**STOP!!** The Student must calculate fire flow formulas IAW IFSTA Pumping Apparatus/Fire Streams.

#### INTERIM SUMMARY

#### 5. Vehicle Operation

T.O. 36A12-23-19-1

- A. Mid-Ship Controls
- B. Side Panel Controls
- C. Rear Panel Controls
- D. Cab Controls
- E. Starting Engines
  - (1) Parking Brake
  - (2) Battery Selector
  - (3) Ignition Switch
  - (4) Oil Pressure
  - (5) Ammeter
  - (6) Air Pressure
  - (7) Cold Weather Conditions
- F. Driving the Vehicle
  - (1) Pulling Out of the Station
  - (2) Backing into the Station
  - (3) Facility Positioning
  - (4) Hydrant Positioning
- G. Shut Down
  - (1) Stop vehicle
  - (2) Transmission to Neutral
  - (3) Set Parking Brake
  - (4) Check all lights and accessories
  - (5) Depress Engine Stop Button
  - (6) Ignition Switch "OFF"
  - (7) Battery Selector

T.O. 36A12-23-19-1 **Stress Cautions & Warnings**

#### INTERIM SUMMARY

#### 5. Operation of Accessories

T.O. 36A12-23-19-1

- A. Lighting and Vision Equipment
- B. Electric Siren System
- D. Winterization System

**PRESENTATION**

<b>TEACHING OUTLINE</b>	<b>NOTES AND REFERENCES</b>
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E. Auxiliary Fire Fighting Equipment

**INTERIM SUMMARY**

**6. Fire Fighting System Operation** T.O. 36A12-23-19-1

A. Pump Panel Familiarization T.O. 36A12-23-19-1

- B. Stationary Operation
- (1) Pump
    - (a) Engagement
    - (a) Water Tank
    - (b) Draft
    - (c) Hydrant
  - (2) Primer
  - (3) Relief Valve
  - (4) Shutdown
  - (5) Post Operational Procedures

- C. Pump and Roll
- (1) Pump
    - (a) Engagement
    - (a) Water Tank
    - (b) Draft
    - (c) Hydrant
  - (2) Primer
  - (3) Relief Valve
  - (4) Shutdown
  - (5) Post Operational Procedures

**7. Driver Qualification Training**

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**LESSON SUMMARY:** Review entire lesson or parts of the lesson the student is not comfortable with.

**EVALUATION:** Written Test - 80%, Qualification Drive - Zero Safety Errors and Satisfactory completion of Evaluation Check List.

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