



# F/A-18 A/B/C/D MAINTENANCE TRAINING



**MOS 6217 LESSON GUIDES**

# F/A-18 A/B/C/D MAINTENANCE TRAINING

A.01 (A thru Q)	Special / Support Equipment
A.02 (A thru I)	Safety Precautions and Procedures
A.03 (A thru EE)	Aircraft Publications, Diagrams, Sketches, and Drawings
A.04 (A thru O)	Precision Measuring Equipment
A.05 (A thru C)	Ground Taxiing
B.01 (A thru R)	Scheduled / Unscheduled Inspections
B.02 (A thru F)	Technical Directives / Changes / Bulletins
B.03 (A thru D)	Corrosion Control
B.04 (A thru B)	Engine Theory of Operation and Functional Check
B.04 (C)	Engine Fault Isolation
B.04 (D1 thru D3)	Engine Organizational Maintenance
B.04 (D4 thru D6)	Engine Organizational Maintenance
B.04 (D7)	Engine Organizational Maintenance
B.04 (D8 thru D9)	Engine Organizational Maintenance
B.05 (A thru D)	Throttle System
B.06 (A thru D)	Secondary Power System
B.07 (A thru C)	Fire Detection System
B.08 (A thru C)	Fire Extinguishing System
B.09 (A thru C)	F/A-18 A/B Fuel System Theory of Operation, Functional Check, and Fault Isolation
B.09 (D)	F/A-18 A/B Fuel System Organizational Maintenance
B.10 (A thru C)	F/A-18 C/D Fuel System Theory of Operation, Functional Check, and Fault Isolation
B.10 (D)	F/A-18 C/D Fuel System Organizational Maintenance
B.11 (A thru D)	Tire and Wheel





- A. LECTURE NUMBER:** F/A-18 MOS 6217 A.01 (A thru Q)
- B. TIME:** 1.5 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Support/Special Equipment
- F. OBJECTIVE:** Student will be able to demonstrate/apply knowledge of the operation, care, and maintenance requirements of applicable work center support/special equipment.
- G. INSTRUCTIONAL AIDES:**
- H. REFERENCES:**
1. A1-F18AC-GAI-000, Organizational Maintenance General Aircraft Information
  2. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
  3. A1-F18AC-PCM-000, Organizational Maintenance Plane Captain Manual
  4. A1-F18AC-130-300, Organizational Maintenance with IPB Landing Gear and Related Systems
  5. A1-F18AC-240-300, Organizational Maintenance with IPB Secondary Power System
  6. A1-F18AC-270-300, Organizational Maintenance with IPB Power plants and Related Systems
  7. NA 19-600-19-6-1, Preoperational Checklist Maintenance Platforms
  8. NA 19-600-58-6-1, Preoperational Checklist Pre-Oiler Jet Oil Servicing and Pressure Oiling
  9. NA 19-600-175-6-1, Preoperational Checklist Tow Bar
- I. PRESENTATION:** This period of instruction will inform students about the operation, care, and maintenance requirements of applicable work center support / special equipment.

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Discuss operation, care, and maintenance of the compressor power unit (64A90F1). REF: A1-F18AC-GAI-000
2. Discuss operation, care, and maintenance of the pre-oiler. REF: NA-19-600-58-6-1
3. Discuss operation, care, and maintenance of the universal tow bar. REF: NA 19-600-175-6-1
4. Discuss operation, care, and maintenance of the removal/installation trailer (PDG7558). REF: A1-F18AC-270-300

5. Discuss operation, care, and maintenance of the aircraft maintenance platforms (B1 & B4). REF: 19-600-19-6-1
6. Discuss operation, care, and maintenance of the VEN adapter (21C8208G01). REF: A1-F18AC-270-300
7. Discuss operation, care, and maintenance of the VEN nozzle actuator tester assembly (NLT-1). REF: A1-F18AC-270-300
8. Discuss operation, care, and maintenance of the multi-purpose dolly (215-00303-50). REF: A1-F18AC-130-300
9. Discuss operation, care, and maintenance of the AMAD alignment tool (74D240205-1001). REF: A1-F18AC-240-300
10. Discuss operation, care, and maintenance of the ECA test cables. REF: A1-F18AC-270-300
11. Discuss operation, care, and maintenance of the Generator adaptor (74D420031-1001). REF: A1-F18AC-240-300
12. Discuss operation, care, and maintenance of the engine removal/installation adaptor (74D290154-1001). REF: A1-F18AC-270-300
13. Discuss operation, care, and maintenance of the engine removal/installation guide rail set L/R. REF: A1-F18AC-270-300
14. Discuss operation, care, and maintenance of the APU removal/installation adaptor (74D240103-1001). REF: A1-F18AC-240-300
15. Discuss operation, care, and maintenance of the fuel sample drain kit. REF: A1-F18AC-PCM-000
16. Discuss operation, care, and maintenance of the fuel sample drain adaptor. REF: A1-F18AC-LMM-000
17. Discuss operation, care, and maintenance of the ground run-up screens. REF: A1-F18AC-LMM-000
18. Discuss operation, care, and maintenance of the canopy jettison ground safety pin. REF: A1-F18AC-LMM-000
19. Discuss operation, care, and maintenance of the arresting hook aircraft ground safety pin. REF: A1-F18AC-LMM-000
20. Discuss operation, care, and maintenance of the ejection seat aircraft safety pins. REF: A1-F18AC-LMM-000
21. Discuss operation, care, and maintenance of the landing gear ground safety pins. REF: A1-F18AC-LMM-000
22. Discuss operation, care, and maintenance of the refueling probe ground safety lock. REF: A1-F18AC-LMM-000
23. Discuss operation, care, and maintenance of the speed brake ground safety lock. REF: A1-F18AC-LMM-000
24. Discuss operation, care, and maintenance of the horizontal stabilizer position support. REF: A1-F18AC-LMM-000
25. Discuss operation, care, and maintenance of the flight deck helmet, microphone, and amplifier. REF: A1-F18AC-LMM-000
26. Discuss operation, care, and maintenance of the oxygen/communication hose. REF: A1-F18AC-LMM-000
27. Discuss operation, care, and maintenance of the electric cord assembly. REF: A1-F18AC-LMM-000
28. Discuss operation, care, and maintenance of the holdback adaptor. REF: A1-F18AC-LMM-000

29. Discuss operation, care, and maintenance of the flap control surface lock. REF: A1-F18AC-LMM-000
30. Discuss operation, care, and maintenance of the wingfold ground safety pin. REF: A1-F18AC-LMM-000
31. Discuss operation, care, and maintenance of the aft seat solo block. REF: A1-F18AC-LMM-000
32. Discuss operation, care, and maintenance of the aircraft tie down chain. REF: A1-F18AC-LMM-000
33. Discuss operation, care, and maintenance of the aircraft high power restraint. REF: A1-F18AC-LMM-000

**J. SUMMARY:** During this period of instruction we covered the operation, care, and maintenance requirements of applicable work center support/special equipment.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 A.02 (A thru I)
- B. TIME:** 1.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Safety Precautions and Procedures in the work center
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of safety precautions and procedures in the work center.
- G. INSTRUCTIONAL AIDES:**
- H. REFERENCES:**

1. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
2. A1-NAOSH-SAF-000/P5100-1,
3. OSHA 29 CFR 1910, Confined Space Entry
4. A1-F18AX-120-100, Organizational Maintenance Theory of Operation Seat, Canopy, Survival Equipment, and Boarding Ladder
5. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
6. A1-F18AC-LMM-020, Organizational Maintenance Line Maintenance Emergency Procedures

**I. PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Discuss safety markings.
2. Discuss shop emergency procedures.
3. Discuss emergency eyewash procedures.
4. Discuss emergency reclamation procedures.
5. Discuss canopy safety procedures.
6. Discuss ejection seat safety procedures.
7. Discuss boarding ladder procedures.
8. Discuss controls/switches/indicators and normal positions in the cockpit.
9. Discuss EMI/IFIE operation.
10. Discuss NWW DDI operation.
11. Discuss maintenance line emergency procedures.
12. Discuss general housekeeping.
13. Discuss shop and safety equipment.
14. Discuss composite material safety.

15. Discuss gas free engineering safety.

**J. SUMMARY:** During this period of instruction we covered safety precautions and procedures in the work center.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 A.03 (A thru EE)
- B. TIME:** 1.0 Hours
- C. DATE PREPARED:** 31 Mar 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Aircraft Publications, diagrams, sketches, and drawings
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of aircraft publications, diagrams, sketches, and drawings.
- G. INSTRUCTIONAL AIDES:** Work center DTPL or squadron CTPL
- H. REFERENCES:**
1. 100 Series Publications, Principles of Operation Manuals
  2. 200 Series Publications, Testing and Troubleshooting Manuals
  3. 300 Series Publications, System Maintenance with IPB Manuals
  4. 500 Series Publications, System Schematic Manuals
  5. A1-F18AC-AML-000, Aircraft Technical Documentation List
  6. A1-F18AC-GAI-000, General Aircraft Information
  7. A1-F18AC-LMM-010, Line Maintenance Access Doors
  8. A1-F18AC-LMM-020, Line Maintenance Emergency Procedures
  9. A1-F18AC-PCM-000, Plane Captain Manual
  10. A1-F18AX-FIM-000, Fault Isolation Manual
  11. A1-F18AX-FRM-000, Fault Reporting Manual
  12. A1-F18AX-OLD-000/010, Organizational Flight Program Simplified Schematics
  13. A1-F18AC-LMM-000, Line Maintenance Procedures
  14. A1-F18AC-IPB-450, Parts List Index Manual
  15. A1-F18AX-MRC-000, Periodic Maintenance Information Cards
  16. A1-F18AX-MRC-200, Maintenance Requirement Cards  
Daily/Special/Conditional
  17. A1-F18AX-MRC-300, Phased Maintenance Requirement Cards
  18. A1-F18AX-NFM-000, NATOPS Flight Manual
  19. A1-F18AX-SRM-450, Structural Repair Manual
  20. A1-F18AX-PIM-010, Piping Installation Manual
  21. A1-F18AX-WUC-800, Work Unit Code Manual
  22. NA 01-1A-8, Aircraft Structural Hardware
  23. NA 01-1A-17 Aircraft Hydraulics Manual
  24. NA 01-1A-503, Aeronautical Antifriction Bearings
  25. NA 01-1A-509, Aircraft Corrosion Control
  26. NA 01-1A-540, Avionics Corrosion Control
  27. NA 04-10-3, Aircraft Wheels
  28. NA 04-10-508, Application Table for Aircraft Tires and Tubes
  29. NA 06-5-502, Refueling Manual
  30. NA 17-1FA18-1, Aircraft Tool Control Manual

31. NA 17-1-537, Aircraft Securing and Handling
32. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program (NAMP)
33. NAVSUP PUB 4500, Consolidated Hazardous Item List
34. AG-000AC-GSE-000/100, Miscellaneous Peculiar Support Equipment

**I. PRESENTATION:** Review with the student following publications as the pertain to the work center:

1. 100 Series Publications
2. 200 Series Publications
3. 300 Series Publications
4. 500 Series Publications
5. A1-F18AC-AML-000
6. A1-F18AC-GAI-000
7. A1-F18AC-LMM-010
8. A1-F18AC-LMM-020
9. A1-F18AC-PCM-000
10. A1-F18AX-FIM-000
11. A1-F18AX-FRM-000
12. A1-F18AX-OLD-000/010
13. A1-F18AC-LMM-000
14. A1-F18AC-IPB-450
15. A1-F18AX-MRC-000
16. A1-F18AX-MRC-200
17. A1-F18AX-MRC-300
18. A1-F18AX-NFM-000
19. A1-F18AX-SRM-450
20. A1-F18AX-PIM-010
21. A1-F18AX-WUC-800
22. NA 01-1A-8
23. NA 01-1A-17
24. NA 01-1A-503
25. NA 01-1A-509
26. NA 01-1A-540
27. NA 04-10-3
28. NA 04-10-508
29. NA 06-5-502
30. NA 17-1FA18-1
31. NA 17-1-537
32. OPNAVINST 4790.2\_
33. NAVSUP PUB 4500
34. AG-000AC-GSE-000/100

**J. SUMMARY:** During this period of instruction we discussed applicable aircraft publications, diagrams, sketches, and drawing for the work center.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 A.04 (A thru O)
- B. TIME:** 1.0 Hours
- C. DATE PREPARED:** 31 Mar 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Precision Measuring Equipment
- F. OBJECTIVE:** Student will be able to demonstrate knowledge and operation of applicable precision measuring equipment.

**G. INSTRUCTIONAL AIDES:**

1. Inch-pound torque wrench
2. Foot-pound torque wrench
3. DDPH-50 Push-pull gauge
4. Dial indicator tensiometer
5. Fuel System Test Set, 74D460108-1003
6. Proximity switch control, 74D42003-1001
7. Fuel nozzle check adaptor, OLGA000
8. APU tester, 74D240164-1001
9. Borescope kit
10. Borescope set, flexible
11. Borescope adaptor set and support set
12. Fan overspeed tester
13. Motor rotating inspection set
14. Multimeter

**H. REFERENCES:**

1. A1-F18AC-LMM-000, Organizational Line Maintenance Procedures
2. A1-F18AX-XXX-200, Organizational Maintenance Testing and Troubleshooting Manuals
3. A1-F18AX-XXX-300, Organizational Maintenance with IPB Manuals
4. Applicable operator's manuals

**I. PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Discuss operation of the inch-pound torque wrench.
2. Discuss operation of the foot-pound torque wrench.
3. Discuss operation of the DDPH-50 Push-pull gauge.
4. Discuss operation of the dial indicator tensiometer.
5. Discuss operation of the Fuel System Test Set, 74D460108-1003.

6. Discuss operation of the proximity switch control, 74D42003-1001.
7. Discuss operation of the fuel nozzle check adaptor, OLGA000.
8. Discuss operation of the APU tester, 74D240164-1001.
9. Discuss operation of the borescope kit.
10. Discuss operation of the borescope set, flexible.
11. Discuss operation of the borescope adaptor set and support set.
12. Discuss operation of the Fan overspeed tester.
13. Discuss operation of the motor rotating inspection set.
14. Discuss operation of the multimeter.

**J. SUMMARY:** During this period of instruction we covered applicable precision measuring equipment.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 A.05 (A thru C)
- B. TIME:** 1.5 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Ground Taxiing
- F. OBJECTIVE:** Student will be able to demonstrate/apply knowledge of ground taxiing.
- G. INSTRUCTIONAL AIDES:**
1. F/A-18
  2. Tow Tractor
  3. Tow Bar
  4. Tie Down Chain
- H. REFERENCES:**
1. A1-F18AC-LMM-000, Line Maintenance Procedures
  2. A1-F18AC-NFM-000, NATOPS Flight Manual
- I. PRESENTATION:**
- NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.
1. Discuss hand signals during launch and recovery.
  2. Discuss aircraft securing procedures.
  3. Discuss towing, spotting, and parking aircraft.
- J. SUMMARY:** During this period of instruction we covered ground taxiing.
- K. QUESTION AND ANSWERS:**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.01 (A thru R)
- B. TIME:** 1.5 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Scheduled/Unscheduled Inspections
- F. OBJECTIVE:** Student will be able to perform scheduled and unscheduled inspections safely and comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**

1. A1-F18AX-MRC-000, Periodic Maintenance Information Cards
2. A1-F18AX-MRC-100, Turnaround Checklist
3. A1-F18AX-MRC-200, Daily Maintenance Requirement Cards
4. A1-F18AX-MRC-250, Special/Preservation Maintenance Requirement Cards
5. A1-F18AX-MRC-300, Phased Maintenance Requirement Cards
6. A1-F18AX-LMM-030, Organizational Maintenance Conditional Inspection Procedures
7. A1-F18AX-WUC-800, Work Unit Code
8. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
9. NA 01-1A-509, Corrosion Control Manual

**I. PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review Periodic Maintenance Procedures REF: A1-F18AXC-MRC-000
2. Review Turnaround Checklist Requirements. REF: A1-F18AX-MRC-100
3. Review Daily, Special, and Preservation Inspection Requirements. REF: A1-F18AX-MRC-200
4. Discuss Phase Maintenance Requirements. REF: A1-F18AX-MRC-300
5. Review Conditional Inspection Procedures. REF: A1-F18AX-LMM-030
6. Review Pre/Post Carrier Inspection requirements. REF: A1-F18AX-LMM-030
7. Discuss special 14-day inspection. REF: A1-F18AX-MRC-250
8. Discuss special 42-day inspection. REF: A1-F18AX-MRC-250
9. Discuss special 30-hour inspection. REF: A1-F18AX-MRC-250

10. Discuss special 100-hour airframe inspection. REF: A1-F18AX-MRC-250
11. Discuss special 100-hour engine inspection. REF: A1-F18AX-MRC-250
12. Discuss special 200-hour engine inspection. REF: A1-F18AX-MRC-250
13. Discuss special 400-hour engine inspection. REF: A1-F18AX-MRC-250
14. Discuss preservation/depreservation inspection. REF: A1-F18AX-MRC-250
15. Discuss acceptance/transfer inspection. REF: OPNAVINST 4790.2\_
16. Discuss daily inspection procedures. REF: A1-F18AX-MRC-200
17. Discuss turnaround inspection procedures. REF: A1-F18AX-MRC-100
18. Discuss preflight inspection procedures.

**J. SUMMARY:** During this period of instruction we covered Periodic Maintenance, Turnaround and Daily Requirements, Special, Preservation and Conditional Maintenance Requirements and we also discussed Phase Inspections.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.02 (A thru F)
- B. TIME:** 1.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Technical Directives
- F. OBJECTIVE:** Student will be able demonstrate a knowledge of  
Technical Directive Changes / Bulletins.
- G. INSTRUCTIONAL AIDES:**
- H. REFERENCES:**
1. NA 5215.10, Processing of RAMEC
  2. OPNAVINST 4290.2\_, Naval Aviation Maintenance Program (NAMP)
- I. PRESENTATION:**
1. Discuss Rapid Action Minor Engineering Change proposals.  
REF: NA 5215.10
  2. Discuss incorporating Technical Directive Changes.  
REF: OPNAVINST 4790.2\_
  3. Discuss incorporating Technical Directive Bulletins.  
REF: OPNAVINST 4790.2\_
- J. SUMMARY:** During this period of instruction we covered the  
Technical Directives System, RAMECs, and incorporating  
Technical Directive Changes / Bulletins.
- K. QUESTION AND ANSWERS:**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.03 (A thru D)
- B. TIME:** 1.0 Hour
- C. DATE PREPARED:** 31 Mar 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Corrosion Control
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Detection, identification, and classification of corrosion control. Student will also be able to treat corrosion safely in accordance with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to the task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. NA 01-1A-509, Corrosion Control Manual
  2. A1-F18AC-SRM-500, Structural Repair Manual
- I. PRESENTATION:**
- NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.
1. Review corrosion detection, prevention, corrective actions on aircraft and support equipment. REF: NA 01-1A-509
  2. Review proper 3M documentation. REF: OPNAVINST 4790.2\_
- J. SUMMARY:** During this period of instruction we covered corrosion detection, identification, and classification. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to a task.
- K. QUESTION AND ANSWERS:**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.4 (A thru B)
- B. TIME:** 3.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Engine Theory and Functional Checks
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Engine theory of operation and functional check procedures. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. A1-F18AC-270-100, Organizational Maintenance Principles of Operation Power Plant and Related Systems
  2. A1-F18AC-270-200, Organizational Maintenance Testing and Troubleshooting Power Plant and Related Systems
  3. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
  4. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
  5. A1-F18AX-WUC-800, Work Unit Code Manual
  6. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual
- I. PRESENTATION:**
- NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.
1. Review engine theory of operation. REF: A1-F18AC-270-100
  2. Review engine start functional check procedures. REF: A1-F18AC-LMM-000
  3. Review engine idle speed functional check procedures. REF: A1-F18AC-270-200
  4. Review engine leak functional check procedures. REF: A1-F18AC-270-200
  5. Review engine 80% N2 functional check procedures. REF: A1-F18AC-270-200
  6. Review VEN functional check procedures. REF: A1-F18AC-270-200
  7. Review engine military power functional check procedures. REF: A1-F18AC-270-200

8. Review engine afterburner functional check procedures. REF: A1-F18AC-270-200
9. Review engine transient power functional check procedures. REF: A1-F18AC-270-200
10. Review engine thrust functional check procedures. REF: A1-F18AC-270-200
11. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
12. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
13. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
14. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered engine theory of operation and functional check procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.4 (C)
- B. TIME:** 3.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Engine Fault Isolation
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Engine fault isolation procedures. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft

**H. REFERENCES:**

1. A1-F18AC-270-100, Organizational Maintenance Principles of Operation Power Plant and Related Systems
2. A1-F18AC-270-200, Organizational Maintenance Testing and Troubleshooting Power Plant and Related Systems
3. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
4. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
5. A1-F18AX-WUC-800, Work Unit Code Manual
6. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

**I. PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review engine no start fault isolation procedures. REF: A1-F18AC-LMM-000
2. Review engine hot start fault isolation procedures. REF: A1-F18AC-270-200
3. Review stall during engine start fault isolation procedures. REF: A1-F18AC-270-200
4. Review hung or slow engine start fault isolation procedures. REF: A1-F18AC-270-200
5. Review speed hang-up above idle fault isolation procedures. REF: A1-F18AC-270-200
6. Review flameout, no restart fault isolation procedures. REF: A1-F18AC-270-200
7. Review flameout, with restart fault isolation procedures. REF: A1-F18AC-270-200

8. Review stall above idle fault isolation procedures. REF: A1-F18AC-270-200
9. Review compressor speed signal fail fault isolation procedures. REF: A1-F18AC-270-200
10. Review EGT over-temp fault isolation procedures. REF: A1-F18AC-270-200
11. Review EGT under limits fault isolation procedures. REF: A1-F18AC-270-200
12. Review EGT false indication fault isolation procedures. REF: A1-F18AC-270-200
13. Review VEN out of limits fault isolation procedures. REF: A1-F18AC-270-200
14. Review VEN indication malfunction fault isolation procedures. REF: A1-F18AC-270-200
15. Review VEN erratic or cycles fault isolation procedures. REF: A1-F18AC-270-200
16. Review N1 RPM out of limits at steady state fault isolation procedures. REF: A1-F18AC-270-200
17. Review N2 out of limits at idle fault isolation procedures. REF: A1-F18AC-270-200
18. Review no afterburner light off fault isolation procedures. REF: A1-F18AC-270-200
19. Review Fan N1 over-speed fault isolation procedures. REF: A1-F18AC-270-200
20. Review low thrust fault isolation procedures. REF: A1-F18AC-270-200
21. Review reduced afterburner operation fault isolation procedures. REF: A1-F18AC-270-200
22. Review cockpit felt vibrations fault isolation procedures. REF: A1-F18AC-270-200
23. Review engine surging or cycling fault isolation procedures. REF: A1-F18AC-270-200
24. Review anti-ice fail fault isolation procedures. REF: A1-F18AC-270-200
25. Review fuel flow false indication fault isolation procedures. REF: A1-F18AC-270-200
26. Review L/R engine inlet temp malfunction fault isolation procedures. REF: A1-F18AC-270-200
27. Review low oil pressure fault isolation procedures. REF: A1-F18AC-270-200
28. Review high oil pressure fault isolation procedures. REF: A1-F18AC-270-200
29. Review compressor discharge pressure false indication fault isolation procedures. REF: A1-F18AC-270-200
30. Review turbine discharge pressure false indication fault isolation procedures. REF: A1-F18AC-270-200
31. Review fan overspeed/transmitter test procedures. REF: A1-F18AC-270-200
32. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800

33. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
34. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
35. Discuss corrosion detection and prevention procedures. REF:  
NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered engine fault isolation procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.4 (D1 thru D3)
- B. TIME:** 3.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Engine Organizational Maintenance
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Engine organizational maintenance procedures for the power plant, fuel system, and afterburner fuel system. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. A1-F18AC-270-300, Organizational Maintenance with IPB Power Plant and Related Systems
  2. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
  3. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
  4. A1-F18AX-WUC-800, Work Unit Code Manual
  5. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual
- I. PRESENTATION:**
- NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.
1. Review R&R of the power plant. REF: A1-F18AC-270-300
  2. Review R&R of the main fuel control. REF: A1-F18AC-270-300
  3. Review R&R of the main fuel pump. REF: A1-F18AC-270-300
  4. Review R&R of the pump filter element. REF: A1-F18AC-270-300
  5. Review R&R of the fuel inlet tube. REF: A1-F18AC-270-300
  6. Review R&R of the check and drain valve. REF: A1-F18AC-270-300
  7. Review R&R of the power lever control. REF: A1-F18AC-270-300
  8. Review R&R of the fuel lines. REF: A1-F18AC-270-300
  9. Review R&R of the afterburner compressor inlet temperature transmitter. REF: A1-F18AC-270-300
  10. Review R&R of the afterburner distribution valve. REF: A1-F18AC-270-300
  11. Review R&R of the afterburner main spray bar. REF: A1-F18AC-270-300

12. Review R&R of the afterburner pilot spray bar. REF: A1-F18AC-270-300
13. Review R&R of the afterburner main fuel manifold. REF: A1-F18AC-270-300
14. Review R&R of the afterburner pilot fuel manifold. REF: A1-F18AC-270-300
15. Review R&R of the vapor puff relay. REF: A1-F18AC-270-300
16. Review R&R of the afterburner fuel control. REF: A1-F18AC-270-300
17. Review R&R of the afterburner fuel pump. REF: A1-F18AC-270-300
18. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
19. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
20. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
21. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered engine organizational maintenance procedures for the power plant, fuel system, and afterburner fuel system. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.4 (D4 thru D6)
- B. TIME:** 3.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Engine Organizational Maintenance
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Engine organizational maintenance procedures for the lubrication system, variable exhaust system, and variable geometry system. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. A1-F18AC-270-300, Organizational Maintenance with IPB Power Plant and Related Systems
  2. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
  3. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
  4. A1-F18AX-WUC-800, Work Unit Code Manual
  5. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual
- I. PRESENTATION:**
- NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.
1. Review R&R of the oil pump. REF: A1-F18AC-270-300
  2. Review R&R of the oil pump filter element. REF: A1-F18AC-270-300
  3. Review R&R of the oil cooler. REF: A1-F18AC-270-300
  4. Review R&R of the oil pump filter element. REF: A1-F18AC-270-300
  5. Review R&R of the oil tank. REF: A1-F18AC-270-300
  6. Review R&R of the oil lines. REF: A1-F18AC-270-300
  7. Review R&R of the VEN power unit. REF: A1-F18AC-270-300
  8. Review R&R of the VEN power unit filter element. REF: A1-F18AC-270-300
  9. Review R&R of the VEN actuator. REF: A1-F18AC-270-300
  10. Review R&R of the VEN lines. REF: A1-F18AC-270-300
  11. Review R&R of the VEN bleed system. REF: A1-F18AC-270-300

12. Review VEN draining and flushing procedures. REF: A1-F18AC-270-300
13. Review R&R of the VEN quick disconnects. REF: A1-F18AC-270-300
14. Review R&R of the VEN nozzle components. REF: A1-F18AC-270-300
15. Review R&R of the compressor variable geometry actuator and bell-crank. REF: A1-F18AC-270-300
16. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
17. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
18. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
19. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered engine organizational maintenance procedures for the lubrication system, variable exhaust system, and variable geometry system. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.04 (D7)
- B. TIME:** 3.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Engine Organizational Maintenance
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Engine organizational maintenance procedures for the electrical system. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. A1-F18AC-270-300, Organizational Maintenance with IPB Power Plant and Related Systems
  2. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
  3. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
  4. A1-F18AX-WUC-800, Work Unit Code Manual
  5. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual
- I. PRESENTATION:**
- NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.
1. Review R&R of the electrical control assembly. REF: A1-F18AC-270-300
  2. Review R&R of the alternator. REF: A1-F18AC-270-300
  3. Review R&R of the igniter exciter. REF: A1-F18AC-270-300
  4. Review R&R of the main ignition lead. REF: A1-F18AC-270-300
  5. Review R&R of the main igniter. REF: A1-F18AC-270-300
  6. Review R&R of the AB ignition lead. REF: A1-F18AC-270-300
  7. Review R&R of the AB igniter. REF: A1-F18AC-270-300
  8. Review R&R of the AB flame sensor. REF: A1-F18AC-270-300
  9. Review R&R of the thermocouple harness. REF: A1-F18AC-270-300
  10. Review R&R of the fuel flow transmitter. REF: A1-F18AC-270-300
  11. Review R&R of the oil pressure transmitter. REF: A1-F18AC-270-300

12. Review R&R of the turbine discharge pressure transmitter.  
REF: A1-F18AC-270-300
13. Review R&R of the compressor discharge pressure transmitter.  
REF: A1-F18AC-270-300
14. Review R&R of the inlet temperature transmitter. REF: A1-F18AC-270-300
15. Review R&R of the fan speed transmitter. REF: A1-F18AC-270-300
16. Review R&R of the vibration accelerometer. REF: A1-F18AC-270-300
17. Review R&R of the VEN position transmitter. REF: A1-F18AC-270-300
18. Review R&R of the electrical harnesses. REF: A1-F18AC-270-300
19. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
20. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
21. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
22. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered engine organizational maintenance procedures for the electrical system. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.04 (D8 thru D9)
- B. TIME:** 3.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Engine Organizational Maintenance
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Engine organizational maintenance procedures for the anti-icing system and engine accessories. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. A1-F18AC-270-300, Organizational Maintenance with IPB Power Plant and Related Systems
  2. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
  3. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
  4. A1-F18AX-WUC-800, Work Unit Code Manual
  5. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual
- I. PRESENTATION:**
- NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.
1. Review R&R of the anti-ice valve. REF: A1-F18AC-270-300
  2. Review R&R of the anti-ice elbow. REF: A1-F18AC-270-300
  3. Review R&R of the anti-ice tube. REF: A1-F18AC-270-300
  4. Review R&R of the inlet ice detector. REF: A1-F18AC-270-300
  5. Review R&R of the engine mounts. REF: A1-F18AC-270-300
  6. Review R&R of the aft mount ring bushing. REF: A1-F18AC-270-300
  7. Review R&R of the outboard thrust mount. REF: A1-F18AC-270-300
  8. Review R&R of the inboard thrust mount. REF: A1-F18AC-270-300
  9. Review R&R of the components of the inboard thrust mount. REF: A1-F18AC-270-300
  10. Review R&R of the aft mount link. REF: A1-F18AC-270-300

11. Review R&R of the fail-safe bolt support. REF: A1-F18AC-270-300
12. Review R&R of the engine drain components. REF: A1-F18AC-270-300
13. Review R&R of the power transmission shaft. REF: A1-F18AC-270-300
14. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
15. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
16. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
17. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered engine organizational maintenance procedures for the anti-icing system and engine accessories. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.05 (A thru D)
- B. TIME:** 2.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Throttle System
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Throttle system theory of operation, fault isolation, functional check, and organizational maintenance procedures. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. A1-F18AC-270-100, Theory of Operation Power Plant and Related Systems
  2. A1-F18AC-270-200, Testing and Troubleshooting Power Plant and Related Systems
  3. A1-F18AC-270-300, Organizational Maintenance with IPB Power Plant and Related Systems
  4. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
  5. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
  6. A1-F18AX-WUC-800, Work Unit Code Manual
  7. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

**I. PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review theory of operation for the throttle system. REF: A1-F18AC-270-100
2. Review functional check procedures for the throttle system. REF: A1-F18AC-270-200
3. Review fault isolation procedures for the throttle system. REF: A1-F18AC-270-200
4. Review R&R of the throttle quadrant. REF: A1-F18AC-270-300
5. Review R&R of the throttle quadrant closure panel. REF: A1-F18AC-270-300
6. Review R&R of the throttle quadrant switches and solenoids. REF: A1-F18AC-270-300

7. Review R&R of the forward throttle cables. REF: A1-F18AC-270-300
8. Review R&R of the middle throttle cables. REF: A1-F18AC-270-300
9. Review R&R of the aft throttle cables. REF: A1-F18AC-270-300
10. Review throttle cable rigging procedures. REF: A1-F18AC-270-300
11. Review R&R of the throttle grips. REF: A1-F18AC-270-300
12. Review R&R of the throttle boost actuator. REF: A1-F18AC-270-300
13. Review R&R of the throttle boost actuator strainer. REF: A1-F18AC-270-300
14. Review R&R of the throttle boost solenoid valve. REF: A1-F18AC-270-300
15. Review R&R of the rack and pinion control unit. REF: A1-F18AC-270-300
16. Review R&R of the load sensor. REF: A1-F18AC-270-300
17. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
18. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
19. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
20. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered throttle system theory of operation, fault isolation, functional check, and organizational maintenance procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.06 (A thru D)
- B. TIME:** 3.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Secondary Power System
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Secondary power system theory of operation, fault isolation, functional check, and organizational maintenance procedures. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. A1-F18AC-240-100, Theory of Operation Secondary Power Systems
  2. A1-F18AC-240-200, Testing and Troubleshooting Secondary Power Systems
  3. A1-F18AC-240-300, Organizational Maintenance with IPB Secondary Power Systems
  4. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
  5. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
  6. A1-F18AX-WUC-800, Work Unit Code Manual
  7. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

**I. PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review theory of operation for the secondary power system. REF: A1-F18AC-240-100
2. Review functional check procedures for the secondary power system. REF: A1-F18AC-240-200
3. Review fault isolation procedures for the secondary power control system. REF: A1-F18AC-240-200
4. Review fault isolation procedures for when ATS does not rotate with engine crack switch set to L/R. REF: A1-F18AC-240-200
5. Review fault isolation when the engine does not crank fast enough. REF: A1-F18AC-240-200

6. Review fault isolation when the ATS keeps rotating with engine crank switch off. REF: A1-F18AC-240-200
7. Review fault isolation when the APU ready light does not come on. REF: A1-F18AC-240-200
8. Review fault isolation when the engine crank switch does not remain in L/R position with AMAD decoupled. REF: A1-F18AC-240-200
9. Review fault isolation when there is no APU emergency shutdown. REF: A1-F18AC-240-200
10. Review fault isolation when the ATS does not rotate with the engine crank switch set to L/R and AMAD decoupled. REF: A1-F18AC-240-200
11. Review R&R of the APU. REF: A1-F18AC-240-300
12. Review R&R of the APU primary fuel nozzles. REF: A1-F18AC-240-300
13. Review R&R of the APU EGT thermocouple. REF: A1-F18AC-240-300
14. Review R&R of the APU oil filter element. REF: A1-F18AC-240-300
15. Review R&R of the APU fuel filter element. REF: A1-F18AC-240-300
16. Review R&R of the APU igniter. REF: A1-F18AC-240-300
17. Review R&R of the electronic control unit. REF: A1-F18AC-240-300
18. Review R&R of the AMAD. REF: A1-F18AC-240-300
19. Review R&R of the AMAD oil filter element. REF: A1-F18AC-240-300
20. Review R&R of the AMAD fuel/oil heat exchanger. REF: A1-F18AC-240-300
21. Review R&R of the AMAD oil level switch. REF: A1-F18AC-240-300
22. Review R&R of the AMAD oil out screen. REF: A1-F18AC-240-300
23. Review R&R of the AMAD electrical harness and couple/decouple switches. REF: A1-F18AC-240-300
24. Review R&R of the air turbine starter. REF: A1-F18AC-240-300
25. Review R&R of the pneumatic control unit. REF: A1-F18AC-240-300
26. Review R&R of the AMAD oil pressure switch and oil temperature thermostat. REF: A1-F18AC-240-300
27. Review R&R of the oil fill/overflow quick disconnect and JOAP valve. REF: A1-F18AC-240-300
28. Review R&R of the generator converter unit. REF: A1-F18AC-240-300
29. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
30. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
31. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
32. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered secondary power system theory of operation, fault isolation, functional check, and organizational maintenance procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.07 (A thru C)
- B. TIME:** 1.5 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Fire Detection System
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Fire detection system theory of operation, fault isolation, and functional check procedures. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft

**H. REFERENCES:**

1. A1-F18AC-240-100, Theory of Operations Secondary Power Systems
2. A1-F18AC-240-200, Testing and Troubleshooting Secondary Power Systems
3. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
3. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
4. A1-F18AX-WUC-800, Work Unit Code Manual
5. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

**I. PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review theory of operation for the fire detection system. REF: A1-F18AC-240-100
2. Review functional check procedures for the fire detection system. REF: A1-F18AC-240-200
3. Review fault isolation procedures for APU fire warning light with no evidence of fire. REF: A1-F18AC-240-200
4. Review fault isolation procedures for L/R engine fire warning light with no evidence of fire. REF: A1-F18AC-240-200
5. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
6. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
7. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_

8. Discuss corrosion detection and prevention procedures. REF:  
NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered fire detection system theory of operation, fault isolation, and functional check procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.08 (A thru C)
- B. TIME:** 1.5 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Fire Extinguishing System
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Fire extinguishing system theory of operation, fault isolation, and functional check procedures. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. A1-F18AC-240-100, Theory of Operations Secondary Power Systems
  2. A1-F18AC-240-200, Testing and Troubleshooting Secondary Power Systems
  3. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
  3. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
  4. A1-F18AX-WUC-800, Work Unit Code Manual
  5. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual
- I. PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review theory of operation for the fire extinguishing system. REF: A1-F18AC-240-100
2. Review functional check procedures for the fire extinguishing system. REF: A1-F18AC-240-200
3. Review fault isolation procedures for no ready indication during APU or Right engine test. REF: A1-F18AC-240-200
4. Review fault isolation procedures for no ready indication left engine test. REF: A1-F18AC-240-200
5. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
6. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
7. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_

8. Discuss corrosion extinguishing and prevention procedures.  
REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered fire extinguishing system theory of operation, fault isolation, and functional check procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.09 (A thru C)
- B. TIME:** 3.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** F/A-18 A/B Fuel Systems Theory, Functional Checks, & Fault Isolation
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: F/A-18 A/B fuel system theory of operation, functional check, and fault isolation procedures. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. A1-F18AC-460-100, Organizational Maintenance Principles of Operation Fuel System for F/A-18 A/B
  2. A1-F18AC-460-200, Organizational Maintenance Testing and Troubleshooting Fuel System F/A-18 A/B
  3. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
  4. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
  5. A1-F18AX-WUC-800, Work Unit Code Manual
  6. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual
- I. PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review fuel system theory of operation. REF: A1-F18AC-460-100
2. Review fuel system functional check procedures. REF: A1-F18AC-460-200
3. Review fault isolation procedures when wing fuel tanks do not pre-check. REF: A1-F18AC-460-200
4. Review fault isolation procedures when fuselage fuel tanks do not pre-check. REF: A1-F18AC-460-200
5. Review fault isolation procedures when aircraft does not defuel. REF: A1-F18AC-460-200
6. Review fault isolation procedures when #1 tank does not transfer. REF: A1-F18AC-460-200

7. Review fault isolation procedures when #4 tank does not transfer. REF: A1-F18AC-460-200
8. Review fault isolation procedures when tanks 1 and 4 not transferring until fuel low occur. REF: A1-F18AC-460-200
9. Review fault isolation procedures when unequal amount of fuel between tanks 1 and 4. REF: A1-F18AC-460-200
10. Review fault isolation procedures for unequal fuel tank depletion. REF: A1-F18AC-460-200
11. Review fault isolation procedures when tank 4 is empty and tank 1 has more than 1400 lbs. REF: A1-F18AC-460-200
12. Review fault isolation procedures when wing fuel tank does not transfer. REF: A1-F18AC-460-200
13. Review fault isolation procedures for no internal fuel tank pressure. REF: A1-F18AC-460-200
14. Review fault isolation procedures for high internal tank pressure below 20K feet. REF: A1-F18AC-460-200
15. Review fault isolation procedures for low internal tank pressure above 20K feet. REF: A1-F18AC-460-200
16. Review fault isolation procedures when tank pressure caution is not displayed above 20K feet. REF: A1-F18AC-460-200
17. Review fault isolation procedures when tank pressure with aircraft weight on wheels. REF: A1-F18AC-460-200
18. Review fault isolation procedures when aircrafts vents fuel. REF: A1-F18AC-460-200
19. Review fault isolation procedures when external tanks do not pre-check when refueling with electrical power. REF: A1-F18AC-460-200
20. Review fault isolation procedures when external tank does not resume refueling. REF: A1-F18AC-460-200
21. Review fault isolation procedures when external tank does not manually pre-check. REF: A1-F18AC-460-200
22. Review fault isolation procedures when external tanks are slow to refuel or do not accept fuel. REF: A1-F18AC-460-200
23. Review fault isolation procedures when external tanks are not transferring. REF: A1-F18AC-460-200
24. Review fault isolation procedures when external tanks do not stop transferring. REF: A1-F18AC-460-200
25. Review fault isolation procedures for fuel leaking from fuselage cavity drains. REF: A1-F18AC-460-200
26. Review fault isolation procedures for L/R boost low caution. REF: A1-F18AC-460-200
27. Review fault isolation procedures for L/R fuel hot caution. REF: A1-F18AC-460-200
28. Review fault isolation procedures for tank pressure caution. REF: A1-F18AC-460-200
29. Review fault isolation procedures for CG caution in flight. REF: A1-F18AC-460-200
30. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
31. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_

32. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
33. Discuss corrosion detection and prevention procedures. REF:  
NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered F/A-18 A/B fuel system theory of operation, functional check, and fault isolation procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.09 (D)
- B. TIME:** 3.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** F/A-18 A/B Fuel System Organizational Maintenance
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: F/A-18 A/B fuel system organizational maintenance. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. A1-F18AC-460-300, Organizational Maintenance with IPB Fuel System for F/A-18 A/B
  3. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
  4. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
  5. A1-F18AX-WUC-800, Work Unit Code Manual
  6. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual
- I. PRESENTATION:**
- NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.
1. Review R&R of the wing high-level refuel/de-fuel pilot valve. REF: A1-F18AC-460-300
  2. Review R&R of the wing low-level refuel/de-fuel pilot valve. REF: A1-F18AC-460-300
  3. Review R&R of the wing refuel/de-fuel shutoff valve. REF: A1-F18AC-460-300
  4. Review R&R of the wing transfer jet ejector. REF: A1-F18AC-460-300
  5. Review R&R of the tanks 1 and 4 high-level pilot valve and fuel shutoff control valve. REF: A1-F18AC-460-300
  6. Review R&R of the tank 3 tank de-fuel valve. REF: A1-F18AC-460-300
  7. Review R&R of the refuel/de-fuel shutoff valve. REF: A1-F18AC-460-300

8. Review R&R of the wing damage fuel shutoff valve. REF: A1-F18AC-460-300
9. Review R&R of the tanks 1 and 4 transfer shutoff valve. REF: A1-F18AC-460-300
10. Review R&R of the tanks 1 and 4 transfer pilot valve. REF: A1-F18AC-460-300
11. Review R&R of the tanks 1 and 4 fuselage transfer jet ejector. REF: A1-F18AC-460-300
12. Review R&R of the tanks 2 and 3 transfer shutoff valve. REF: A1-F18AC-460-300
13. Review R&R of the diverter valve. REF: A1-F18AC-460-300
14. Review R&R of the motive flow boost pump. REF: A1-F18AC-460-300
15. Review R&R of the internal pressurization check valve. REF: A1-F18AC-460-300
16. Review R&R of the internal fuel tank air pressure regulator. REF: A1-F18AC-460-300
17. Review R&R of the air pressure switch. REF: A1-F18AC-460-300
18. Review R&R of the external fuel tank. REF: A1-F18AC-460-300
19. Review R&R of the external fuel quantity transmitter. REF: A1-F18AC-460-300
20. Review R&R of the fuel tank refuel transfer check valve. REF: A1-F18AC-460-300
21. Review R&R of the external tank pre-check switch. REF: A1-F18AC-460-300
22. Review R&R of the external tank air pressure regulator. REF: A1-F18AC-460-300
23. Review R&R of the external tank pressure regulator check valve. REF: A1-F18AC-460-300
24. Review R&R of the external fuel system 5-psi air pressure switch. REF: A1-F18AC-460-300
25. Review R&R of the external fuel system 34-psi air pressure switch. REF: A1-F18AC-460-300
26. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
27. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
28. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
29. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered F/A-18 A/B fuel system organizational maintenance procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.10 (A thru C)
- B. TIME:** 3.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** F/A-18 C/D Fuel Systems Theory, Functional Checks, & Fault Isolation
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: F/A-18 C/D fuel system theory of operation, functional check, and fault isolation procedures. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. A1-F18AE-460-100, Organizational Maintenance Principles of Operation Fuel System for F/A-18 C/D
  2. A1-F18AE-460-200, Organizational Maintenance Testing and Troubleshooting Fuel System F/A-18 C/D
  3. A1-F18AE-LMM-000, Organizational Maintenance Line Maintenance Procedures
  4. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
  5. A1-F18AX-WUC-800, Work Unit Code Manual
  6. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual
- I. PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review fuel system theory of operation. REF: A1-F18AE-460-100
2. Review fuel system functional check procedures. REF: A1-F18AE-460-200
3. Review fuel display functional check procedures. REF: A1-F18AE-460-200
4. Review fuel quantity display functional check procedures. REF: A1-F18AE-460-200
5. Review fuel transfer display functional check procedures. REF: A1-F18AE-460-200
6. Review fault isolation procedures when wing fuel tanks do not pre-check. REF: A1-F18AE-460-200

7. Review fault isolation procedures when fuselage fuel tanks do not pre-check. REF: A1-F18AE-460-200
8. Review fault isolation procedures when fuselage fuel tanks remain in pre-check after pre-check is turned off. REF: A1-F18AE-460-200
9. Review fault isolation procedures when aircraft does not de-fuel. REF: A1-F18AE-460-200
10. Review fault isolation procedures when #1 tank does not transfer. REF: A1-F18AE-460-200
11. Review fault isolation procedures when #4 tank does not transfer. REF: A1-F18AE-460-200
12. Review fault isolation procedures when tanks 1 and 4 not transferring until fuel low occur. REF: A1-F18AE-460-200
13. Review fault isolation procedures when unequal amount of fuel between tanks 1 and 4. REF: A1-F18AE-460-200
14. Review fault isolation procedures for unequal fuel tank depletion. REF: A1-F18AE-460-200
15. Review fault isolation procedures when tank 4 is empty and tank 1 has more than 1400 lbs. REF: A1-F18AE-460-200
16. Review fault isolation procedures when wing fuel tank does not transfer. REF: A1-F18AE-460-200
17. Review fault isolation procedures for no internal fuel tank pressure. REF: A1-F18AE-460-200
18. Review fault isolation procedures for high internal tank pressure below 20K feet. REF: A1-F18AE-460-200
19. Review fault isolation procedures for low internal tank pressure above 20K feet. REF: A1-F18AE-460-200
20. Review fault isolation procedures when tank pressure caution is not displayed above 20K feet. REF: A1-F18AE-460-200
21. Review fault isolation procedures when tank pressure with aircraft weight on wheels. REF: A1-F18AE-460-200
22. Review fault isolation procedures when aircrafts vents fuel. REF: A1-F18AE-460-200
23. Review fault isolation procedures when external tanks do not pre-check when refueling with electrical power. REF: A1-F18AE-460-200
24. Review fault isolation procedures when external tank does not resume refueling. REF: A1-F18AE-460-200
25. Review fault isolation procedures when external tank does not manually pre-check. REF: A1-F18AE-460-200
26. Review fault isolation procedures when external tanks are slow to refuel or do not accept fuel. REF: A1-F18AE-460-200
27. Review fault isolation procedures when external tanks are not transferring. REF: A1-F18AE-460-200
28. Review fault isolation procedures when external tanks do not stop transferring. REF: A1-F18AE-460-200
29. Review fault isolation procedures for fuel leaking from fuselage cavity drains. REF: A1-F18AE-460-200
30. Review fault isolation procedures for L/R boost low caution. REF: A1-F18AE-460-200

31. Review fault isolation procedures for L/R fuel hot caution.  
REF: A1-F18AE-460-200
32. Review fault isolation procedures for tank pressure caution.  
REF: A1-F18AE-460-200
33. Review fault isolation procedures for CG caution in flight.  
REF: A1-F18AE-460-200
34. Discuss appropriate 3M documentation procedures. REF: NA  
OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
35. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
36. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
37. Discuss corrosion detection and prevention procedures. REF:  
NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered F/A-18 C/D fuel system theory of operation, functional check, and fault isolation procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.10 (D)
- B. TIME:** 3.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** F/A-18 C/D Fuel System Organizational Maintenance
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: F/A-18 C/D fuel system organizational maintenance. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. A1-F18AE-460-300, Organizational Maintenance with IPB Fuel System for F/A-18 C/D
  3. A1-F18AE-LMM-000, Organizational Maintenance Line Maintenance Procedures
  4. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
  5. A1-F18AX-WUC-800, Work Unit Code Manual
  6. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual
- I. PRESENTATION:**
- NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.
1. Review R&R of the wing high-level refuel/de-fuel pilot valve. REF: A1-F18AE-460-300
  2. Review R&R of the wing low-level refuel/de-fuel pilot valve. REF: A1-F18AE-460-300
  3. Review R&R of the wing refuel/de-fuel shutoff valve. REF: A1-F18AE-460-300
  4. Review R&R of the wing transfer jet ejector. REF: A1-F18AE-460-300
  5. Review R&R of the tanks 1 and 4 high-level pilot valve and fuel shutoff control valve. REF: A1-F18AE-460-300
  6. Review R&R of the tank 3 tank de-fuel valve. REF: A1-F18AE-460-300
  7. Review R&R of the refuel/de-fuel shutoff valve. REF: A1-F18AE-460-300

8. Review R&R of the wing damage fuel shutoff valve. REF: A1-F18AE-460-300
9. Review R&R of the tanks 1 and 4 transfer shutoff valve. REF: A1-F18AE-460-300
10. Review R&R of the tanks 1 and 4 transfer pilot valve. REF: A1-F18AE-460-300
11. Review R&R of the tanks 1 and 4 fuselage transfer control valve. REF: A1-F18AE-460-300
12. Review R&R of the fuel tank transfer turbine pump. REF: A1-F18AE-460-300
13. Review R&R of the dump valve/motor. REF: A1-F18AE-460-300
14. Review R&R of the L/R fuel shutoff valve. REF: A1-F18AE-460-300
15. Review R&R of the cross feed shutoff valve. REF: A1-F18AE-460-300
16. Review R&R of the diverter valve. REF: A1-F18AE-460-300
17. Review R&R of the motive flow boost pump. REF: A1-F18AE-460-300
18. Review R&R of the redistribution valve. REF: A1-F18AE-460-300
19. Review R&R of the cross motive valve. REF: A1-F18AE-460-300
20. Review R&R of the L/R cross motive check valve manifold. REF: A1-F18AE-460-300
21. Review R&R of the vent tank wet sensor. REF: A1-F18AE-460-300
22. Review R&R of the scavenge control valve. REF: A1-F18AE-460-300
23. Review R&R of the internal pressurization check valve. REF: A1-F18AE-460-300
24. Review R&R of the internal fuel tank air pressure regulator. REF: A1-F18AE-460-300
25. Review R&R of the air pressure switch. REF: A1-F18AE-460-300
26. Review R&R of the external fuel tank. REF: A1-F18AE-460-300
27. Review R&R of the external fuel quantity transmitter. REF: A1-F18AE-460-300
28. Review R&R of the fuel tank refuel transfer check valve. REF: A1-F18AE-460-300
29. Review R&R of the external tank pre-check switch. REF: A1-F18AE-460-300
30. Review R&R of the external tank air pressure regulator. REF: A1-F18AE-460-300
31. Review R&R of the external tank pressure regulator check valve. REF: A1-F18AE-460-300
32. Review R&R of the external fuel system 5-psi air pressure switch. REF: A1-F18AE-460-300
33. Review R&R of the external fuel system 34-psi air pressure switch. REF: A1-F18AE-460-300
34. Review R&R of the tank 2 and 3 fuel tank level sensor. REF: A1-F18AE-460-300

35. Review R&R of the tank 1 and 4 transfer motive flow pressure valve. REF: A1-F18AE-460-300
36. Review R&R of solenoids. REF: A1-F18AE-460-300
37. Review R&R of the tank 2 and 3 fuel level solenoid valve. REF: A1-F18AE-460-300
38. Review R&R of the L/R wing fuel tank fuel level solenoid valve. REF: A1-F18AE-460-300
39. Review R&R of the L/R/Center external tank refuel/transfer shutoff valve solenoid. REF: A1-F18AE-460-300
40. Review R&R of the L/R wing motive flow shutoff valve solenoid. REF: A1-F18AE-460-300
41. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
42. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
43. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
44. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered F/A-18 C/D fuel system organizational maintenance procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**



- A. LECTURE NUMBER:** F/A-18 MOS 6217 B.11 (A thru D)
- B. TIME:** 2.0 Hours
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Tire and Wheel
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Tire and wheel theory of operation, fault isolation, functional check, and organizational maintenance procedures. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. A1-F18AC-LMM-000, Organizational Line Maintenance Procedures
  2. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
  3. A1-F18AX-WUC-800, Work Unit Code Manual
  4. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual
  5. NA 04-10-506, Inspection, Maintenance, Repair, Storage, and Disposition Instructions Organizational and Intermediate Maintenance Aircraft Tires and Tubes
- I. PRESENTATION:**
- NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.
1. Review theory of operation for tires and wheel. REF: NA 04-10-506
  2. Review tire and wheel servicing procedures. REF: A1-F18AC-LMM-000
  3. Review tire and wheel servicing procedures. REF: A1-F18AC-LMM-000
  4. Review tire and wheel serviceable wear limits. REF: A1-F18AC-LMM-000
  5. Review tire and wheel cut limits. REF: A1-F18AC-LMM-000
  6. Review fault isolation procedures for MLG tire air loss. REF: A1-F18AC-LMM-000
  7. Review fault isolation procedures for NLG tire air loss. REF: A1-F18AC-LMM-000
  8. Review fault isolation procedures for wear limits. REF: A1-F18AC-LMM-000

9. Review fault isolation procedures for cut limits. REF: A1-F18AC-LMM-000
10. Review R&R of the nose landing gear tire. REF: A1-F18AC-LMM-000
11. Review R&R of the main landing gear tire. REF: A1-F18AC-LMM-000
12. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
13. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
14. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
15. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered tire and wheel theory of operation, fault isolation, functional check, and organizational maintenance procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**