

3d. Identify the practices of Foreign Object Damage (FOD) prevention with at least 80% accuracy.

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- Overview

- Definition

- Susceptible areas to FOD

- Prevention of FOD

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- Definition of Foreign Object
  
- FOD is damage to aircraft, aircraft systems or equipment caused by foreign objects
  - Aircraft engines
    - F-16 most susceptible due to intake's low position
    - Suction effect
      - Ingest personnel
      - Ingest personal articles or equipment

3d. Identify the practices of Foreign Object Damage (FOD) prevention with at least 80% accuracy.

- Flight controls and avionics systems
  - FO in aircraft
    - Tools lost in the aircraft
    - Equipment left in the aircraft
    - Items accidentally fall from pockets
    - Hardware/debris accidentally left behind during repair work

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- Flight controls and avionic systems
  - FO can be lodged in moveable flight surfaces
  - FO can interfere mechanically or electrically with avionic or flight control systems
  - FO can interfere with ejection seat system
- Powered AGE or test equipment
  - FO caught in intakes of powered AGE
  - FO by hot air exhaust
  - FO in electronic test equipment

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- Prevention of FOD

- Running engines

- Do not approach closer than 5 feet from side or rear of intake, 25 feet in front
    - Multi-engine approach from non-running side
    - Engine operational checks – inlet screens installed
    - No loose clothes
    - Do not carry objects that might be ingested
    - Remove all objects from in front or within intake

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- Prevention of FOD

- Apparel

- Hats or caps will not be worn while engines are running
    - Hair fasteners – no metal, plastic, leather, wigs
    - No umbrellas

- Mandatory FOD walks



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- Prevention of FOD

- Strict tool inventory and control

- Inventory tools and equipment before leaving the site
    - End of shift inventory

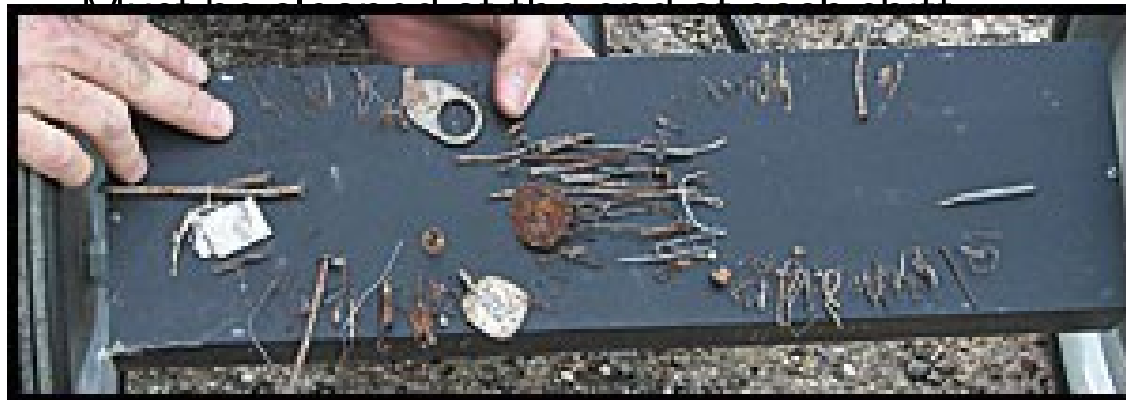


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- Prevention of FOD

- Vehicle checks

- Tire checks
    - FOD bar
      - Ferrous metals only



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- Prevention of FOD

- Strict policy – empty pockets before entering aircraft cockpit
- Use a FOD drop cloth whenever possible
- Ice Monitors are required during intake icing conditions

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Complete exercise 3d