

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

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- Overview

- Purpose
- Hazards, Human Factors, and General Safety Requirements
- Falling, Tripping, and Bumping
- Electrical Shock
- Hand Tools
- Adverse Weather Conditions
- Personal Protective Equipment
- Work center Equipment

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Purpose: To protect all USAF personnel from work related deaths, injuries and occupational illness
 - Significantly reduces hazardous working conditions
 - Establishes standards
 - Prescribe maximum exposure limits
 - Identify required safety equipment
 - Establish training requirements
 - AFOSHSTD 91-series: 91-100 & 91-501

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Hazards, Human Factors, and General Requirements

- Fires, Explosions and Burns

- Fire or explosion hazards
 - Fuel vapors
 - Jet fuel starter
 - Engine turbines
 - Ejection seats and canopies
- Burn hazards
 - Exhaust areas
 - Pitot tubes
 - Hot brakes and lights

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Hazards, Human Factors, and General Requirements

- Human Factors – Two categories

- 1. Mental

- Attitude or emotion
 - Job or domestic pressure
 - Distractions
 - Job knowledge
 - Hurrying

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Hazards, Human Factors, and General Requirements

- Human Factors – Two categories

- 2. Physical

- Fatigue

- Physical strength

- Reactions to prescription medications or drugs

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- General Requirements

- Fuel vapor areas

- Restriction against ignition sources
 - Shut down electrical equipment
 - No smoking on flightline or in hangers
 - No metallic shoe cleats or taps

- Aircraft equipped with Jet Fuel Starters

- Fire extinguisher within easy reach
 - Qualified fire guard

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- General Requirements

- Engine Turbines

- Red vertical line for plane of rotation
 - Dark gray vertical line for F-16
 - Keep area clear of personnel

- Ejection Seats and Canopies

- Ground safety pins installed
 - Egress familiarization training
 - No protruding items from pockets

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- General Requirements

- Burn prevention

- Wear PPE – heat-resistant gloves
 - Long sleeve shirts
 - Avoid touching hot aircraft surfaces immediately after landing

- Cardiopulmonary Resuscitation (CPR)

- Required Training
 - Received at first duty station
 - Refresher training every two years

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Falling, Tripping, and Bumping
 - Potential hazards
 - Falling
 - Elevated maintenance stands
 - Oil, deicing fluid, hydraulic fluid spills
 - Weather – ice or wind
 - Tripping
 - Power cables and grounding cables
 - Tie-down ropes
 - Ladders
 - Air conditioning ducts

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Falling, Tripping, and Bumping

- Potential hazards

- Bumping

- Leading, trailing edges

- Protruding edges

- » Missile fins

- » Static dischargers

- » Pitot tube

- » Open doors / panels

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Falling, Tripping, and Bumping
 - Human factors
 - Inattention to task
 - Running
 - Improper footwear
 - Fatigue
 - Lack of familiarity with work area

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- **Falling, Tripping, and Bumping**

- **General Requirements**

- Be aware of your surroundings
 - Use maintenance stands
 - Guardrails must be installed on all open sides except side facing aircraft when it is within 14 inches
 - Brakes or locks must be set
 - Elevated stands, install locking pin, release hydraulic pressure, close hydraulic valve
 - No standing or climbing on rails

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- **Falling, Tripping, and Bumping**

- General Requirements

- Fall restraint / arrest systems

- Used at wash rack due to soap and slick aircraft surface

- Required for work when you can experience a fall of 10 feet or more

- Use FOM or TNB Storage Areas to:

- Prevents tripping over panels or parts left on ramp or hanger floor

- Protects parts from damage

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- **Falling, Tripping, and Bumping**

- General Requirements

- Wrap up power cords and air ducts when not in use
 - Situational awareness around aircraft to avoid protrusions
 - Know where you are at all times
 - Know what hazards are around you
 - Never run near operating aircraft

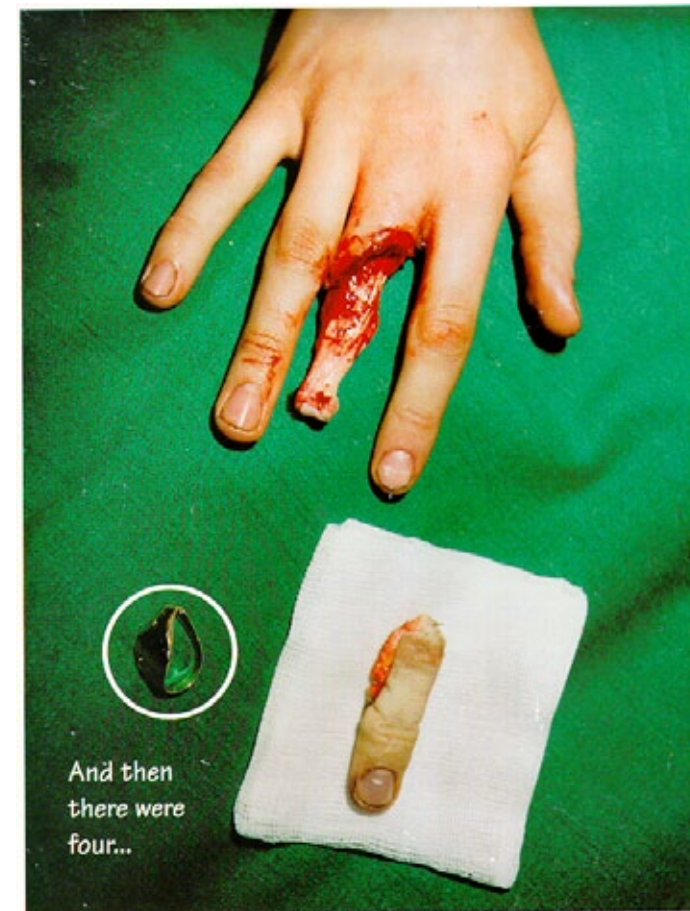
3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Falling, Tripping, and Bumping

- General Requirements

- Wear of jewelry

- Rings / watches not allowed while performing maintenance
- Common base policy, NO rings or watches while on flightline or in hanger
- Placing tape over the ring – insufficient



3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Electrical shock

- Potential hazards

- Ground power units
 - Energized systems
 - Test equipment
 - Aircraft systems
 - Improper use of grounding cords
 - Electrical cord abuse
 - Excessive scraping or kinking
 - Over stretching of cables
 - Exposure to grease and oils



3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Electrical shock
 - Human Factors

- Not trained
- Not following proper TO procedures
- Inattention to mishap potentials

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Electrical shock

- General Requirements

- No rings, watches or other metal conductive jewelry shall be worn
- Metal-framed eyeglasses must be secured by band
- Temporary or makeshift wiring prohibited in hangers
- Avoid overloading circuits
- Three-wire grounded extension cords
- Inspect all electrical cables before each use
- Use only approved solvents for cleaning electrical equipment
- While measuring energized circuits, do not hold meters in hand

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Hand tools

- Potential hazards

- Unsafe use causes:
 - Injuries
 - Damage to equipment
 - Wrong tool for the task

- Human Factors

- Not trained in proper use of the tool
 - Not following proper TO procedures
 - Inattention to mishap potentials

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Hand tools

- General Requirements

- No rings or other jewelry shall be worn
 - Select the best tool for the job
 - Tools should be in good repair
 - Do not keep tools in pant or coat pockets
 - Working force of the tool away from your body
 - Do not drop or throw tools
 - Strict tool control procedures
 - Personal tools are prohibited

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Hand tools
 - General Requirements

- PPE

- Goggles or face shields – when flying particles might be present
 - Gloves – when working with sharp edges
 - Respirators – fine dust is present
 - Steel-toe shoes – protect feet
- AFOSHSTD 91-501, sec 12.4 lists specific guidelines for use of each type of tool



3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Adverse weather conditions
 - Potential hazards
 - Cold weather exposure
 - Hypothermia
 - Frost bite
 - Hot and humid climates
 - Heat exhaustion
 - Sunburn
 - Dehydration
 - Human Factors
 - Fatigue
 - Disorientation
 - Inattention to mishap potentials

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Adverse weather conditions

- General Requirements

- Base weather station – responsible agency for initial notification
 - Two-tiered notification system for lightning
 - Lightning watch
 - Lightning warning
 - High winds
 - Refer to applicable TO for doors / panels and canopies
 - Hazardous velocities – only aircraft safeguarding activity will take place

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Adverse weather conditions

- General Requirements

- Heat conditions

- Drink plenty of water
 - Use sunscreen
 - Work/rest cycles if in MOP gear
 - Be alert of your physical condition

- Cold conditions

- Wear appropriate clothing
 - Be aware of the danger signs of your own physical condition
 - Work/rest cycles in extreme conditions

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Personal Protective Equipment

- Provided by work center
- Places a barrier between worker and hazard
- PPE used when hazards are present that could do bodily harm through:
 - Absorption
 - Inhalation
 - Physical contact
- Must be approved and maintained in satisfactory condition
- PPE issued or signed out from work center

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Personal Protective Equipment

- PPE you will be exposed to:

- Steel-toed boots – ANSI Z41, class 75
 - Protective gloves
 - Heavy work gloves issued for general use
 - Refer to MSDS or TO for particular task requirements
 - Reflective belts required on flightline during hours of darkness
 - Goggles
 - Face shields – refer to TO
 - Aprons – refer to TO

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Work center equipment
 - Designed for use immediately after mishap
 - In case of chemical contamination
 - Emergency showers/eyewash stations
 - Not a substitute for PPE
 - When working on high voltage equipment
 - Emergency equipment
 - CPR instructions
 - Emergency phone numbers
 - Approved first aid kit
 - Nonconductive cane or hook
 - Wool or insulating blanket
 - CPR face mask and disposable gloves

3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Work center equipment
 - Hazard signs
 - Used to:
 - Warn of danger
 - Caution advisory
 - Provide information
 - Caution signs
 - Hazardous noise
 - Two man lift
 - RF radiation hazard
 - Exit signs
 - Directional signs
 - Instruction / Identification signs



3a. Identify AF Occupational Safety and Health (AFOSH) hazards and standards for the 2A3XX career field with at least 80% accuracy.

- Work center equipment

- Hazard signs

- Fire / Explosive hazards

- On vehicles

- On flammable storage lockers

- Work by the rules. Shortcuts / avoiding safety standards can kill or injure the people the standards are designed to protect.

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Complete exercise 3a.