

Personnel Protective Equipment



Lesson topic 4.4

Enabling objectives



- ⌘ ***Describe*** the function of personal protective equipment consisting of the ACPG, MCU-2P protective mask, boots & glove set to include:
Component characteristics & functions
- ⌘ ***Describe*** the operation to include donning/doffing procedures for personal protective equipment
- ⌘ ***Explain*** abnormal conditions associated with personal protective equipment

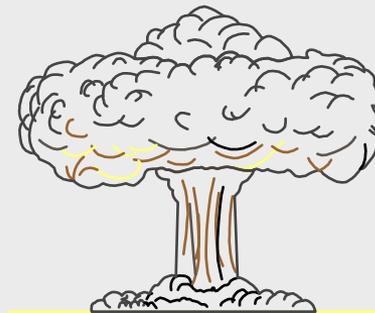
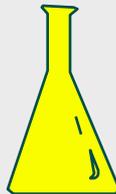
Enabling objectives



- ⌘ Describe the operation to include donning/doffing procedures for personal protective equipment to include: Theory of operation, Pre-operational procedures

Purpose

⌘ Personal Protective Equipment provides protection against eye, respiratory & skin hazards from chemical, biological agents & radioactive fallout particles



MCU-2/P Protective Mask



- ⌘ Eye-respiratory & facial skin protection

- ⌘ Available in three sizes

 - ☑ Small, medium, large

- ⌘ Face piece

 - ☑ Unimolded silicone rubber

 - ☑ Size determined by measuring the distance from the bridge of the nose to the bottom of the chin

MCU-2/P Protective Mask



⌘ Lens

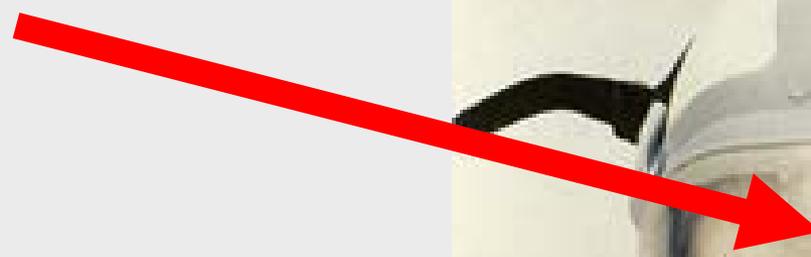
- ☑ Distortion free view
- ☑ Optically clear urethane
- ☑ Wide field of vision

⌘ Front Voicemitter

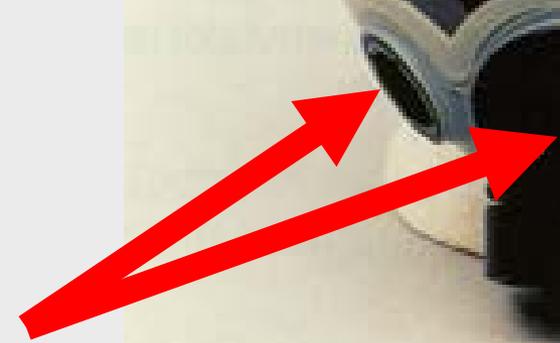
⌘ Side Voicemitter

MCU-2/P Protective Mask

Lens



Voicemitters



MCU-2/P Protective Mask



⌘ Head Harness

- ☑ Six metal tipped elastic straps
- ☑ Quick donning tab

⌘ Nose Cup

- ☑ Silicone rubber
- ☑ Covers nose & mouth
- ☑ Inlet valve disks, reduces fogging

MCU-2/P Protective Mask



- ⌘ Internal Drinking Tube

- ⌘ Drinking Tube

 - ☑ M1 Canteen Cap

- ⌘ Outlet Valve Cover

 - ☑ Protects the outlet valve

 - ☑ Holds external drinking tube

MCU-2/P Protective Mask

**Outlet valve cover &
drinking tube**



MCU-2/P Protective Mask



⌘ Outlet Valve Assembly

- ☑ One-way valve
- ☑ Silicone rubber disk
- ☑ mesh screen prevents dislodging

⌘ Inlet Valve Assembly

- ☑ One-way valve behind canister
- ☑ Can be switched to other side

MCU-2/P Protective Mask



⌘ C-2 canister

☑ Charcoal filter

☑ NATO threads

☑ 3 per mask

Canister change out requirements



- ⌘ Exceeds 5 year shelf life
- ⌘ 30 days in contaminated environment (One shot of blood agent)
- ⌘ 60 days in non-contaminated environment
- ⌘ Charcoal is wet
- ⌘ Canister damaged
- ⌘ Excessive breathing resistance
- ⌘ Charcoal dust is on face after use
- ⌘ CO directs

Mask accessories



⌘ Carrier

- ☑ Mildew resistant nylon
- ☑ Water-proof bag used to stow MCU-2/P

⌘ Outsert

- ☑ Optically clear shell

Chemical Protective Footwear Covers



- ⌘ Sizes are small & large
- ⌘ Butyl Rubber, Non-slip soles
- ⌘ Capabilities
 - ☑ Indefinite shelf life when in bag
 - ☑ 24 hours in a contaminated environment
 - ☑ Protects from liquid chemical agent

Chemical Protective Glove Set



- ⌘ Sizes - extra small, small, medium, large & extra large
- ⌘ Butyl Rubber
- ⌘ Inner cotton liners adsorb body moisture

PROTECTIVE GLOVES ARE NOT TO BE USED FOR ELECTRICAL WORK

Chemical Protective Glove Set



⌘ Capabilities

- ☑ Indefinite shelf life
- ☑ Provides at least 6 hrs in a contaminated environment
- ☑ Protects from liquid chemical agent

Advanced Chemical Protective Garment (ACPG)



- ⌘ The ACPG/JSLIST (Joint Service Lightweight Integration Suit Technology) provides protection from the effects of nuclear, biological and chemical (NBC) contaminants. ACPG/JSLIST is lighter and less bulky, imposes less heat stress and reduces psychological and physiological burdens compared to the current garments. The ACPG/JSLIST ensemble uses a single base-garment design, which can be configured to meet each Service's requirements. The ensemble comes in three parts: protective suit, protective boots and protective gloves.

ACPG Jacket



- ⌘ Sizes - small, extra short, small short, medium regular, medium long, large long
- ⌘ Equipped with
 - ☑ Hood with draw cord
 - ☑ Velcro fasteners - wrists and elasticized drawstring at waist
 - ☑ Zippered front closure with velcro fastened flap

ACPG Jacket

- ⌘ Pocket on left sleeve
- ⌘ Elastic loop attached to the bottom back of the jacket to keep it from riding up & exposing the wearer's back



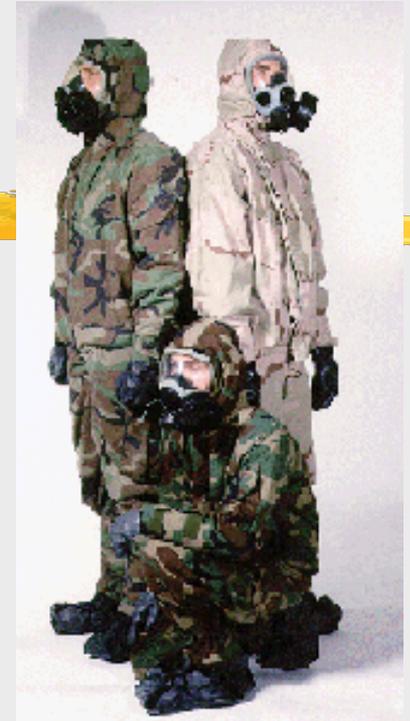
ACPG Trousers

⌘ Equipped with

- ☑ High waist with adjustable suspenders
- ☑ Velcro fasteners at the waist & ankles
- ☑ Cargo pockets
- ☑ Zippered closure

⌘ Material for smock & trousers

- ☑ Camouflaged outer layer with activated charcoal inner layer



Capabilities



- ⌘ Washings - 6 are permitted
- ⌘ Uncontaminated wear life is 45 days
- ⌘ Contaminated wear life is 24 hours
- ⌘ 120 days in a non-contaminated environment out of sealed bag

ACPG

⌘ Chemical Protective Footwear Covers Chemical Protective Gloves



AirBoss Light Weight Boot



Gloves

CBR-D Kit Bag



Wet Weather Clothing



⌘ Worn over the ACPG

☑ Provides extra protection from liquid chemical agent droplets & solid particulate & to prevent garments from getting soaked by countermeasure wash down system or sea spray

Wet Weather Clothing



⌘ Parka

- ☑ Jacket style

- ☑ Hood with a draw cord, visor, and adjustable fastener straps

⌘ Overalls

- ☑ Bib front with elastic suspenders

HEAT STRESS!

Review and Summary

- ⌘ MCU-2P protective mask
- ⌘ Advanced Chemical Protective Overgarment – ACPG
- ⌘ Boots and Glove sets
- ⌘ Wet Weather Clothing



We need to be PREPARED!!

