

3h. Identify safety practices when working around high intensity sound with at least 80% accuracy.

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- **Overview**

- High Intensity Sound Hazards

- Safety Requirements

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- High Intensity Sound

- Hazards

- Irreparable hearing loss
 - Physical and psychological stress
 - Areas determined by Bioenvironmental Engineer
 - Noise levels measured in decibels (dBs)
 - Noise exposure limits designed to protect personnel
 - Designate single and dual protection requirements

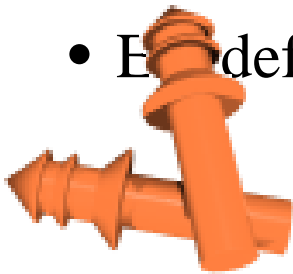
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- High Intensity Sound
 - Sources
 - Engine noise from aircraft
 - Noise from AGE equipment
 - -60 turbine generators
 - C-10 air conditioners
 - Hydraulic test stand

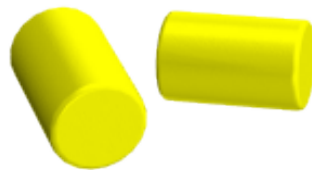
3h. Identify safety practices when working around high intensity sound with at least 80% accuracy.

- Safety Requirements

- Ear protection required in noise ha
- Two basic types of ear protection
 - Ear plugs
 - Ear defenders



Flanged Ear
Plugs



Soft Foam Ear
Plugs



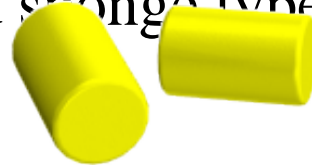
Ear Muffs

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- Safety Requirements

- Ear plugs - Formable

- Come in one size
 - Material compresses, after insertion expands
 - Commonly called sponge type or foamies
 - disposable



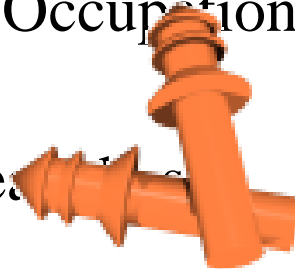
Soft Foam Ear
Plugs

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- Safety Requirements

- Ear plugs – Premolded

- Two standard styles
 - Various sizes to fit most people
 - Must be fitted by Occupational Health or Audiology Clinic
 - Designed for repeated use



Flanged Ear
Plugs

3h. Identify safety practices when working around high intensity sound with at least 80% accuracy.

- Safety Requirements

- Ear defenders

- Like earmuffs
 - Issued by support section
 - Headsets

- Equipped with audio speaker

- Microphone built in

- Allows two-way communication between aircraft and ground personnel



Ear Muffs

3h. Identify safety practices when working around high intensity sound with at least 80% accuracy.

- Safety Requirements
- Dual protection
 - Noise levels above 130 dBs
 - Operating aircraft engines
 - Immediate vicinity of operating AGE
 - Maximum hearing protection achieved through use of dual protection
 - Earplugs and Ear defenders or headsets

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- **Summary**

- High Intensity Sound Hazards

- Safety Requirements

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Complete exercise 3h