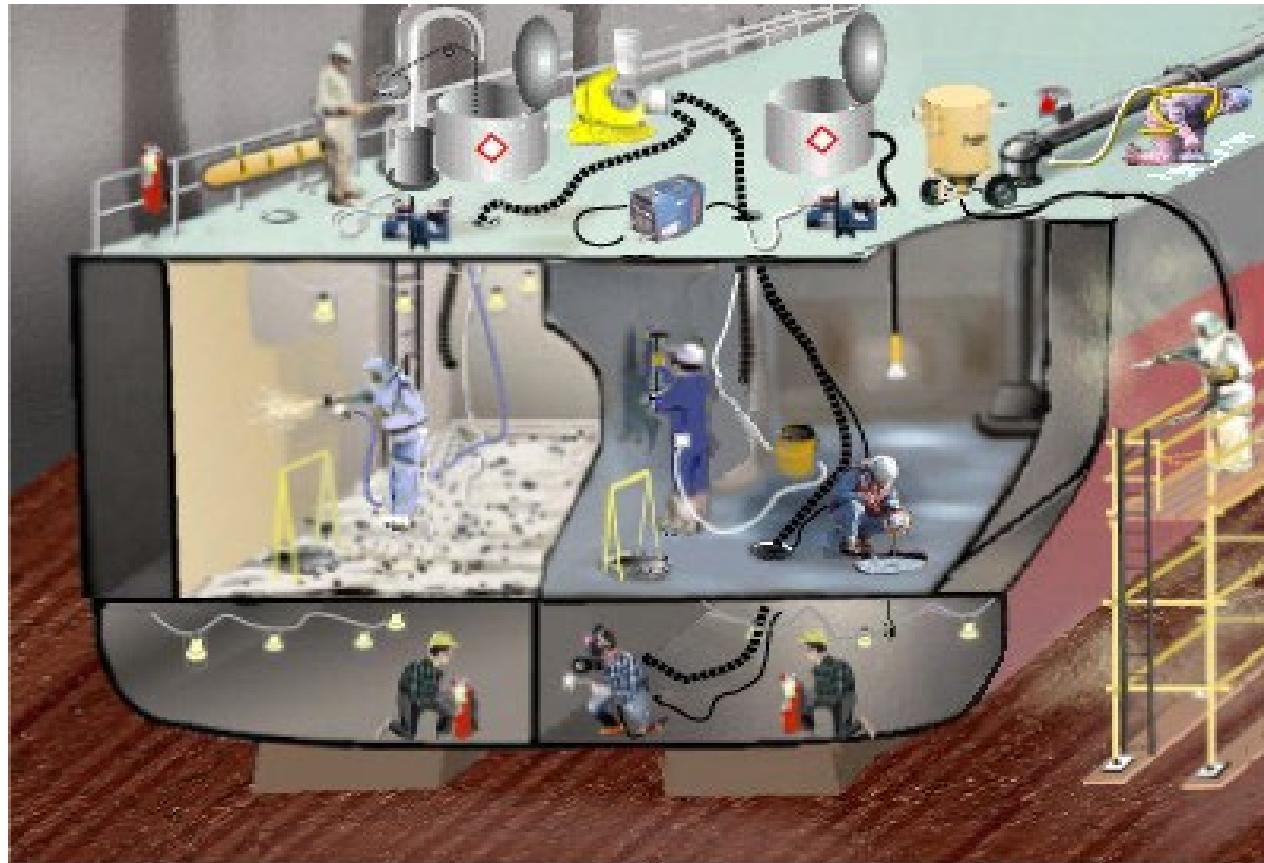


Shipyard Employment

Personal Protective Equipment (PPE) - Subpart I



Personal Protective Equipment

1915 Subpart I

- 1915.151 – Scope, application, and definitions
- 1915.152 – General requirements
- 1915.153 – Eye and face protection
- 1915.154 – Respiratory protection
- 1915.155 – Head protection
- 1915.156 – Foot protection
- 1915.157 - Head and body protection
- 1915.158 – Lifesaving equipment

Personal Protective Equipment

1915 Subpart I

- 1915.159 – Personal fall arrest systems (PFAS)
- 1915.160 – Positioning device systems
- 1915 Appendix A – Non-mandatory guidelines for hazard assessment, PPE selection and PPE training
- 1915 Appendix B – General testing conditions and additional guidelines for PFAS (Non-mandatory)

General Requirements

1915.152(a)

- Provide and use appropriate PPE
 - Eyes
 - Face
 - Head
 - Respiratory
 - Protective clothing
 - Fall protection equipment
 - Life saving equipment



General Requirements

1915.152(b)

- Assess work activity to determine hazards present
 - Necessitate employee use of PPE



General Requirements

1915.152(c)

- Defective or damaged PPE not used



General Requirements

1915.152(d)

- Unsanitary PPE used by employees
- Reissued equipment cleaned and disinfected before reissued



General Requirements

1915.152(e)(1)

- Employees trained on use of PPE
 - When PPE necessary
 - What PPE necessary
 - How to wear PPE
 - Limitations of PPE
 - Proper care, maintenance, etc. of PPE



General Requirements

1915.152(e)(2)

- Employee can demonstrate ability to use PPE properly



General Requirements

1915.152(e)(3)

- Employee retrained where proper use of PPE not understood or skills required



Eye and Face Protection

1915.153(a)(1)

- Eye and face protection where exposure to:
 - Flying particles
 - Molten metal
 - Liquid chemicals
 - Acid or caustic liquids
 - Chemical gases or vapors
 - Injurious light radiation



Eye and Face Protection

1915.153(a)(4)

- Equipment with filter lens
 - Shade number provides appropriate protection
 - Table I-1 listing of appropriate shade numbers for operations



Respiratory Protection

1915.154

- Respiratory protection covered by 1910.134



Head Protection

1915.155(a)(1)

- Protective helmet where potential for injury to head
 - From falling objects



Head Protection

1915.155(b)(1)-(2)

- Protective helmets purchased after 8/22/96
 - Comply with ANSI Z89.1-1986
- Protective helmets purchased before 8/22/96
 - Comply with ANSI Z89.1-1969



Foot Protection

1915.156(a)

- Protective footwear required when:
 - Danger of foot injuries
 - » Falling or rolling objects
 - » Objects piercing sole



Foot Protection

1915.156(b)(1)-(2)

- Protective footwear purchased after 8/22/96
 - Comply with ANSI Z41-1991
- Protective footwear purchased before 8/22/96
 - Comply with ANSI Z41-1963



Hand and Body Protection

1915.157(a)

- Wear appropriate hand and protective clothing
 - Skin absorption of harmful substances
 - Severe cuts/lacerations
 - Severe abrasions
 - Punctures
 - Chemical burns
 - Thermal burns



Hand and Body Protection

1915.157(b)

- During hot work operations
 - No clothing impregnated or covered with flammable or combustible materials
 - » Such as grease or oil



Hand and Body Protection

1915.157(c)

- Protective electrical insulating gloves and sleeves
 - Exposure to electrical shock hazards



Lifesaving Equipment

1915.158(a)(1) - (2)

- PFDs need to be USCG approved
 - Type I, II, III, or V
- Inspected for defects prior to use
- Defective PFDs not used



Lifesaving Equipment

1915.158(b)(1)

- Work performed on vessels 200' or more in length
 - At least three 30" USCG ring life buoys accessible
 - At least 90' line attached



Lifesaving Equipment

1915.158(b)(2)

- Work performed on vessels under 200' in length
 - At least one 30" ring life buoy located at gangway
 - At least 90' line attached



Lifesaving Equipment

1915.158(b)(5)

- In vicinity of floating vessel where work being performed
 - At least one portable or permanent ladder
 - Assist employees to reach safety
 - » In event fall into water



Personal Fall Arrest Systems

1915.159

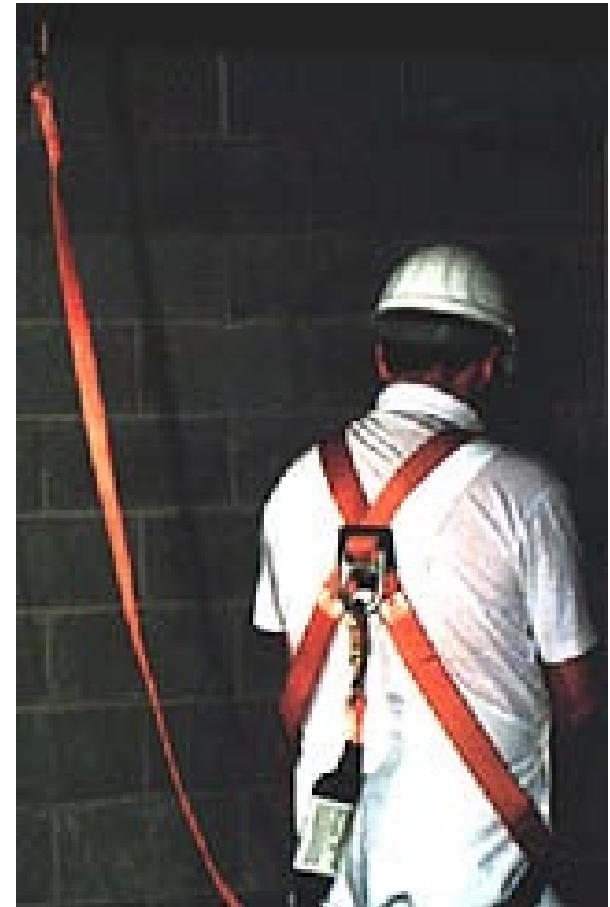
- Body belts and non-locking snap hooks not acceptable
 - As part of personal fall arrest system (PFAS)



PFAS

1915.159(b)(6) - (7)

- Limit maximum arresting force to 1,800 lbs. with body harness
- PFAS rigged to prevent free fall >6 feet nor contact lower level



- Attachment point of body harness
 - Located in center of back near shoulder level



- PFAS inspected prior to use
 - Mildew
 - Wear
 - Damage
 - Other deterioration
- Defective components removed from service



● Training

- Each affected employee trained to understand the application limits of the equipment and proper hook-up, anchoring, and tie-off techniques.
- Trained so that they can demonstrate the proper use, inspection, and storage of their equipment.



Positioning Device Systems

1915.160

- Connecting assemblies minimum strength 5,000 pounds
- Anchorage capable supporting twice impact load of fall
- Inspected before each use
- Trained in application limits, hook-up, anchoring and tie-off, etc.



Thank You For Attending!

Final Questions?

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