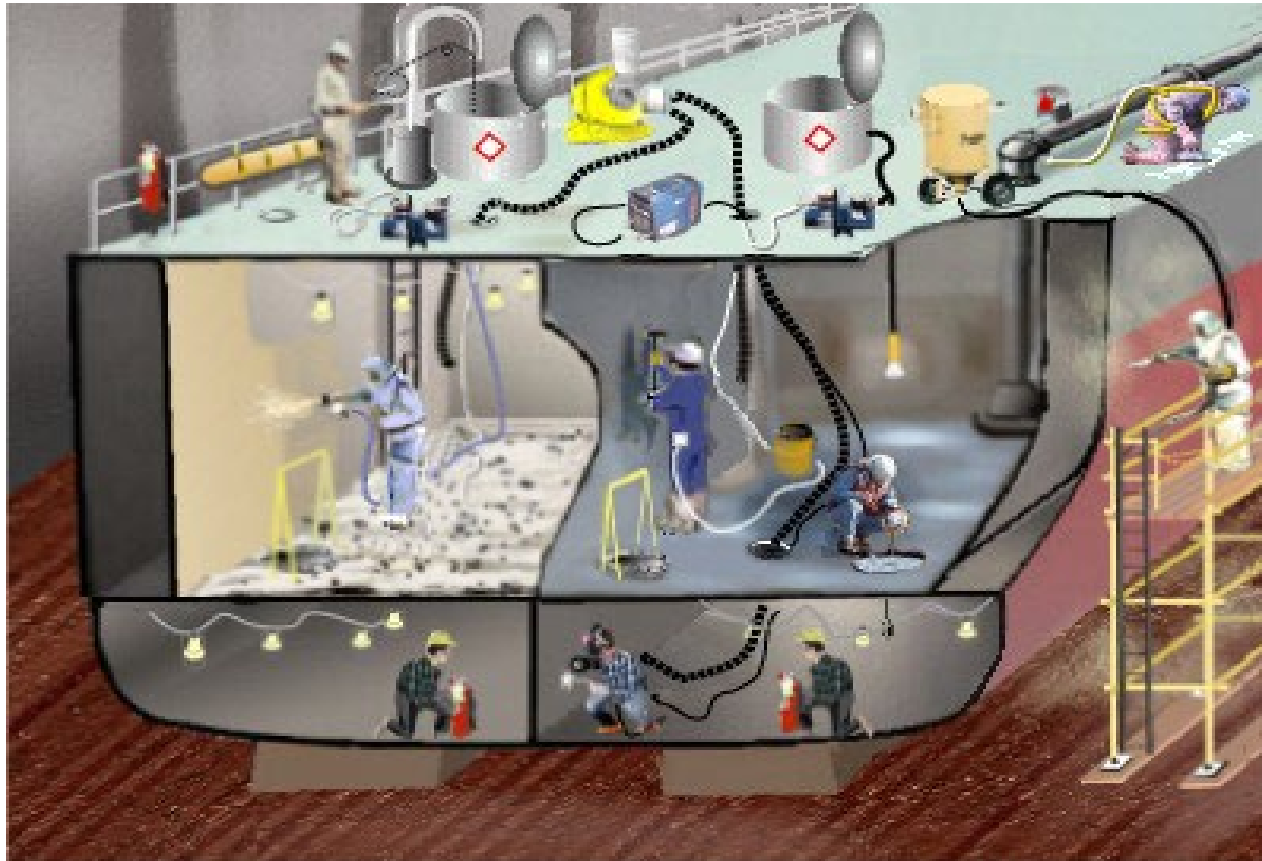


# Shipyard Employment

## Personal Protective Equipment (PPE) - Subpart I

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# Personal Protective Equipment

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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

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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)
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# General Requirements

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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

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1915.152(c)

- Defective or damaged PPE not used



# General Requirements

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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

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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

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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 snaphooks 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

1915.159(c)

- 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!

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## Final Questions?

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