

## Unit 4D

### Potential Hazards and Human Factors on the Fireline



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### Unit 4D Objectives

1. Define safety.
2. Define Situation Awareness and describe why it is important.
3. State the five communication responsibilities.
4. Identify potential hazards in the fire environment.
5. Define the Risk Management Process and describe why it is important.
6. Describe actions that foster teamwork.

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### SAFETY

- Condition of being safe from undergoing or causing hurt, injury or loss.
- A device on a piece of equipment to reduce hazard
- Freedom from exposure to danger, exemption from injury, and to protect from injury

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## **SAFETY**

- Is Safety Something We do?
- OR
- The result of doing things right?
- Look at Front & Back of FLHB

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## **Human Factors**

- WL Firefighting
  - High Risk Work
  - Hazardous Environment
- Most Fatalities/Accidents – result of “Errors in Human Judgment”
- Human Factors affect Safety & Productivity

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# **BRAIN SHARPENING UNIT**

**Remember - Always  
Watch out for Fire  
Walls**

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## Categories of Hazards

**Subjective hazard –**  
one has control over



**Objective hazard –**  
one has no control over



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## Objective

- Lightning (FLHB Page 19)
- Fire Weakened Timber (P 58-59)
- Rolling Rocks, logs
- Entrapment by Fire (Page 40)

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## Hazards

1. Fire Environment Hazards
2. Human Related Hazards
3. Other Environmental Hazards
4. Biological Hazards
5. Equipment Hazards
6. Vehicle Hazards

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## Hazards, Continued

- 7. Aircraft Hazards
- 8. Base Camp Related Hazards
- 9. Wildland/Urban Interface Hazards
- 10. Tree and Snag Hazards

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## Hazards Found

- Inform supervisor
- Flag it
- Two Options:
  - Make it Safe before entering
  - Avoid the area if it cannot be made safe
- How do you describe our environment?
- **HIGH RISK!!!**

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## Risk Management Process

IRPG Page 1

- Step 1 – Situational Awareness
- Step 2 – Hazard Assessment
- Step 3 – Hazard Control
- Step 4 – Decision Point
- Step 5 – Evaluate

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## Teamwork

1. What are some successful teams you have seen or been involved with prior to today?
2. What were some characteristics of successful teams you have seen or been involved with?
3. What are some characteristics of unsuccessful teams you have seen or been involved with?
4. Why is teamwork so important to firefighting?

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## Review Unit 4D Objectives

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6. Describe actions that foster teamwork.

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