



Program Hazard Analysis

Risk Management Workshop
September 2024



Prepared. For Life.®



Learning Objectives

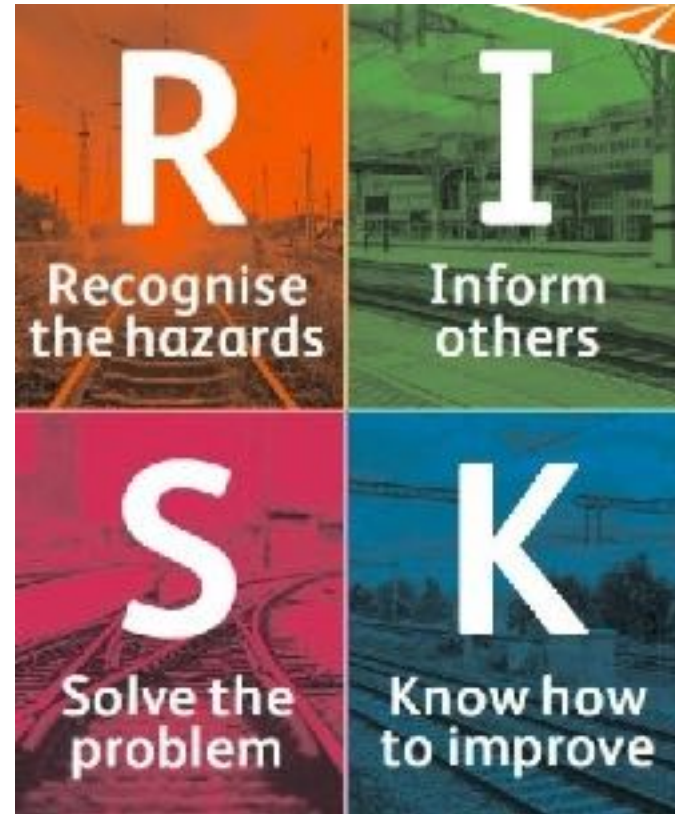
- *Discuss methods to create a risk aware environment*
- *Discuss areas of BSA outdoor program applicable to Leave No Trace courses*
- *Identify potential hazards during Leave NO Trace courses*
- *Devise methods to minimize risk through controls*
- *Identify effective risk mitigation strategies*





Creating a Risk Aware Environment

- Among course staff
 - Hazard identification
 - Risk assessment



Prepared. For Life.®



Creating a Risk Aware Environment

- Among participants
 - Communication
 - Pre-course
 - During course
 - Comfort level



Prepared. For Life.®



Creating a Risk Aware Environment

Obtain Buy In

Model Correct Behavior

Positive Reinforcement



Follow Through



Prepared. For Life.®



Experiential Learning Format

- Backpacking
- Canoe/Kayak
- Winter Camping
- Pack stock
- Bike Trek
- Service Projects



Prepared. For Life.®



Hazard Categories

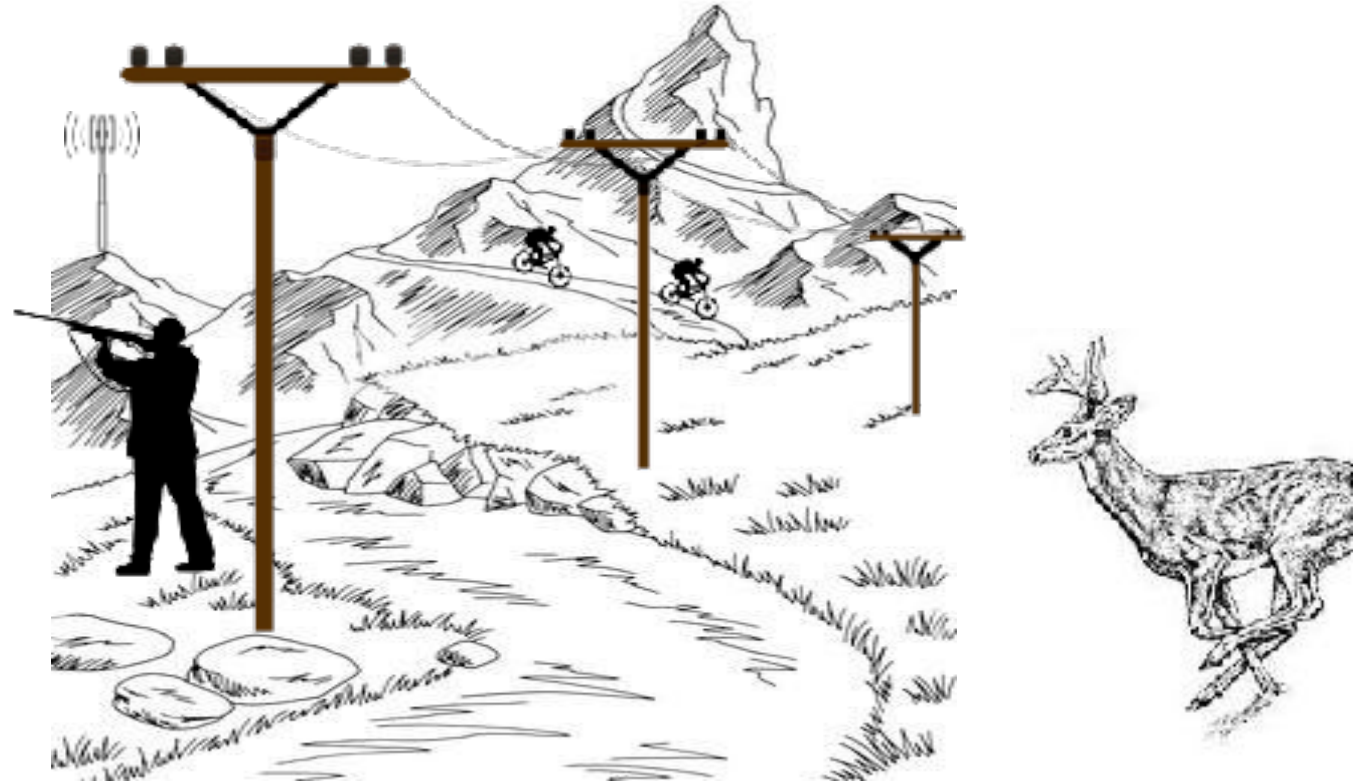
- Location
- Weather
- Wildlife
- Human
- Other





Location Based Hazards

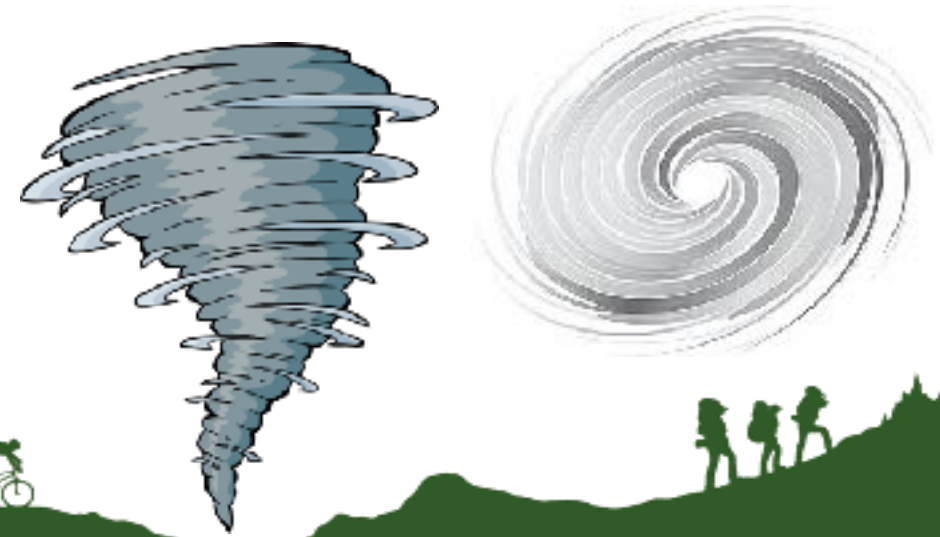
- Manufactured
- Terrain
- Communication Barrier
- Accessibility to Water
- Dual Use
- Travel
- Vegetation
- Natural Disaster





Weather Based Hazards

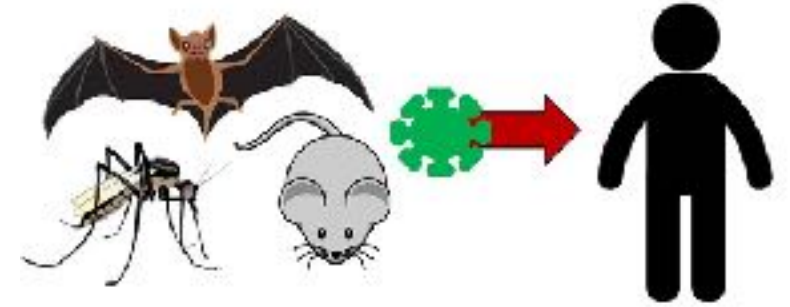
- Exposure
 - Heat and cold injuries
- Precipitation
 - Rain, Snow, Blizzard
- Severe Weather
 - Lightening, Tornado, Hail, etc.





Wildlife Based Hazards

- Insect bites/stings
- Venomous Snakes
- Small Mammals
- Large Mammals





Human Based Hazards

- Skills and Knowledge

- Water treatment
- Camp cooking



- Behavior

- Undisciplined
- Un-Scoutly



- Health

- Fitness
- Medical conditions
- Allergies





Service Project Related Risk

- Location
 - Rough Terrain
- Weather
 - exertion
- Wildlife
- Human
 - Skills/Knowledge
 - Tools & Equipment
- Other





Hazard Identification Practical Exercise

- Materials Needed
 - Risk Assessment Worksheet
 - Writing Utensil
- Brainstorm Potential Hazards
- Analyze Severity and Frequency of Each Hazard
- Assign Risk Category & Verify Group Consensus





Reflection

1. What types of hazards did each group come up with?
2. Are there any potential hazards that require controls or mitigation?





Hierarchy of Controls

Eliminate the Risk



Engineer Out the Risk



Administrative Controls



PPE





Effective Mitigation

- Experience
- Critical Thinking
- Teamwork
- Experts



Prepared. For Life.®



Hazard Mitigation Practical Exercise

- Material Needed
 - Risk Assessment Worksheet
 - Writing Utensil
- Determine Controls and/or Mitigation to Address Unacceptable Risks
- Analyze Severity and Frequency of Each Hazard based on Controls & Mitigation
- Assign New Risk Category & Verify Group Consensus





Reflection

1. What controls and/or mitigation strategies were identified?
2. How did those strategies impact the hazard category?
3. How do we know a control measure will be effective?
4. How do we create a risk aware environment for our courses?





Prepared by
Joshua Lamothe
Date: March 2023
Revised July 2024 (JW)

Sources:

BSA Leave No Trace Master Educator Course Manual



Prepared. For Life.®