

GAR Risk Calculation Worksheet

{Green – Amber – Red}

THE GAR IS BASED ON A TEAM DISCUSSION TO UNDERSTAND THE MISSION AND EVALUATE THE RISKS INVOLVED AND HOW THEY WILL BE MANAGED.

ACCURATELY ASSESSING AND MANAGING THE RISKS IS WHAT IS IMPORTANT; NOT THE ABILITY TO ASSIGN NUMBERS AND COLORS, THEY ARE TOOLS TO HELP YOU FACTOR AND QUANTIFY THE RISKS!

Assign a risk code 1 (minimal risk) through 10 (maximum risk) to each of the eight elements below.

The discussion should start with the least experienced member speaking about the perceived risks for each category and should include the opportunity for team members to ask questions.

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| SUPERVISION: <i>off-site management / field leader(s) / qualifications / experience / communication clarity</i> | |
| PLANNING: <i>details / clarity / emergency action plan / hazards / transportation / route planning / float plan</i> | |
| CONTINGENCY RESOURCES: <i>available emergency services / food & water / First Aid / shelter / evacuation</i> | |
| COMMUNICATIONS: <i>two way radios / cell phone / satellite phone / locator beacons & transponders</i> | |
| TEAM SELECTION: <i>training / qualifications / experience / aptitude / abilities / functionality / liabilities</i> | |
| TEAM FITNESS: <i>physical fitness / mental and emotional state / health concerns / rest & fatigue cycles</i> | |
| ENVIRONMENT: <i>Weather- temperature, wind, visibility, precipitation / terrain / water / remoteness / heights</i> | |
| EVENT & EVOLUTION COMPLEXITY: <i>details / step-procedures / task load / number of people-agencies</i> | |
| TOTAL RISK SCORE: Combine the risk score for each element and apply score to GAR evaluation scale. | |

If there is a risk score of **8 or higher** in any category, the mission may need to be canceled, rescheduled or delayed until proper resources, personnel and mitigation factors can be employed, consider not mobilizing assets and personnel, or sheltering in place.

GAR Evaluation Scale – Color Coding the Level of Risk

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|--------------------------------|----|----|-------------------------------|----|----|-----------------------------|----|----|
| 0 | 15 | 32 | 33 | 40 | 56 | 57 | 60 | 80 |
| GREEN (Low Risk) | | | AMBER (Caution) | | | RED HIGH RISK | | |

If the total falls in the **GREEN** zone risk is minimum, avoid becoming complacent.

If the total falls in the **AMBER** zone risk is moderate, adopt procedures and precautions to minimize the risk.

If the total falls in the **RED** zone **avoid activating the mission** until procedures, personnel and resources can be implemented or conditions change that will reduce the risk.

THE GAR MODEL SHOULD BE USED DURING PLANNING, TO ACCOMPANY JOB HAZARD ANALYSES, TAILGATE MEETINGS, CONTINUALLY DURING OPERATIONS, WHEN CONDITIONS CHANGE, AND DURING DE-BRIEFINGS OR MISSION/MISHAP ANALYSIS.

FIELD NOTES

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If the Risk Assessment determines high or unacceptable levels of risk, the control options below may help determine if the risks can be reduced to an acceptable level, or controlled for a period of the mission.

CONTROL OPTIONS

- **Spread-out:** Disperse the risk by increasing the amount of time between events, or by utilizing additional people, resources or assets.
- **Transfer:** If practical locate a better equipped team, asset or location to accommodate the mission.
- **Avoid:** Circumvent the hazard- wait for the risk to subside. (weather change, daylight, increased visibility)
- **Accept:** In some situations the benefit may be to accept the risk. In this situation thresholds need to be reevaluated and the level of risk monitoring and safety observer oversight must also increase.
- **Reduce:** Implement risk reduction. (PPE, additional training, rest and fatigue and stress reduction, remove time constraints or budgetary restrictions)