



ORM MATRIX



OPERATIONAL RISK MANAGEMENT MATRIX

OPERATION:				ORGANIZATION:			PREPARED BY:	DATE:
Rock Climbing				Soul Survivor Outdoor (SSO)			Rick Wolf	
PHASE	HAZARD	CAUSES	INIT RAD	DEVELOP CONTROLS	RES RAC	HOW TO IMPLEMENT	HOW TO SUPERVISE	
Rock Climb	Broken bone Laceration Bruise	<ul style="list-style-type: none"> a. Falling while conducting top rope rock climbing b. Heavy object or rock falls on service member 	4 (II/ C)	<ul style="list-style-type: none"> a. Licensed/professional climbing instruction will be conducted by Cliff Hanger Guides of Joshua Tree, California. b. Experienced instructor present and monitoring all climbing activities at all times. c. Instructors are certified by the Professional Climbing Guides Institute (PCGI). d. All instructions are followed. e. All maintain situational awareness. f. Only top-rope will be conducted. g. Height will not exceed 75 ft. h. All equipment will be inspected by instructor prior to use. i. Instructors will inspect all anchors and rope (s). j. All equipment will be properly utilized and in place. k. All participants will wear a helmet while climbing or on belay. l. Proper harness wear and usage. m. Proper tying in of climber and harness to climbing rope. n. Climber, harness, and equipment will be inspected prior to climbing. o. Proper instruction and spotting by instructor will occur at all times. p. Proper commands and communication will be established by instructor and followed at all times. 	5 (IV / D)	<ul style="list-style-type: none"> a. Instructor from Cliff Hanger Guides will brief all instructions to service members as well as the mitigating controls. b. service members will follow all instructions of operation organizers. Climbing stops the moment anyone fails to abide by instructions. c. Anyone can call an audible if a problem arises or a danger is seen. d. service members will remain with group at all times. 	<ul style="list-style-type: none"> a. OIC and SNCOIC will pass importance of following instructions and ensure all service members are in compliance will all instructions given by personnel from Cliff Hanger Guides. b. Operation organizer(s) oversee entire operation. service members are responsible for their actions. c. service members are responsible for their actions and will be held accountable. 	

The Professional Climbing Guides Institute (PCGI) is a Nationally recognized rock climbing training and certification organization. The U.S. Department of the Interior, National Park Service and Forest Service units have rock climbing guide and climbing instructor certification mandates and/or guidelines in place and accept PCGI Certifications as forms of proof of certification for rock climbing guides and/or rock climbing instructors and/or rock climbing guide and rock climbing instruction services operating on public lands. **Cliff Hanger Guides are certified by PCGI and possess a license to operate in Joshua Tree National Park.**



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PHASE	HAZARD	CAUSES	INIT RAD	DEVELOP CONTROLS	RES RAC	HOW TO IMPLEMENT	HOW TO SUPERVISE
All	Broken bone / severe laceration or bruise	a. Tripping / Falling b. Heavy object falls on service member	4 (III / C)	a. Follow instructions b. Remain with the group . c. Maintain situational awareness.	5 (IV / D)	a. Section leader will brief this hazard to service member as well as the mitigating controls. b. service member will follow instructions of operation organizers. c. service member remains with group at all times.	Sect leader conducts safety brief prior to service member's departure. Operation organizer(s) oversee entire operation. service members are responsible for their actions.
All	Sunburn	a. Long exposure to sunlight	2 (III / A)	a. Pre-stage sunscreen with gear the night prior. b. Use buddy system to apply sunscreen to hard to reach areas. c. Ensure all service members wear the proper gear.	5 (IV / C)	a. First aid kit available during the trip. b. Extra sunscreen carried in first aid dry bag.	Same as above
All	Dehydration	a. Failure to hydrate prior to and during camping trip.	4 (III / C)	a. Ensure hydration system is full prior to execution of trip. b. Hydrate. c. Eat a balance breakfast the morning of the trip and snack throughout execution.	5 (IV / D)	a. Prepare a gear list and operation schedule prior to each execution. b. Use the gear list to prepare the night before.	Same as above
All	Vehicle accident	a. Failure to follow speed limits. b. DUI. c. Distracted driving. d. Unsafe vehicle e. Unforeseen actions of another driver.	3 (I / D)	a. service member wears seatbelt at all times. b. Utilize gov transportation	5 (IV / D)	a. service member observes driver prior to entering vehicle to assess if driver is sober. b. If driver is unsafe, service member insists driver slow down and/or drive in a safe manner. c. service member calls chain of command or 911, if required for assistance.	Same as above
All	Animal/bug bite	a. Failure of situation awareness. b. Animals/bugs unnoticed in the environment.	4 (III / C)	a. Follow instructions. b. Remain with the group. c. Maintain situational awareness. d. Apply bug spray.	5 (IV / D)	a. Section leader will brief this hazard to the service member as well as the mitigating controls. b. service member will follow instructions of operation organizers. c. service member remains with group at all times.	Sect leader conducts safety brief prior to service member's departure. Operation organizer(s) oversee entire operation. service members are responsible for their actions.

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<u>RISK ASSESSMENT CODE (RAC)</u> 1 – Critical, 2 – Serious, 3 – Moderate, 4 – Minor, 5 – Negligible	OVERALL RISK ASSESSMENT <u>Moderate/Negligible</u>					<u>COMMAND REVIEW APPROVAL</u>	
<u>HAZARD SEVERITY</u> I – CATASTROPHIC – Death, Permanent Disability, Major Property Damage. II – CRITICAL – Permanent Partial Disability, Major System or Property Damage. III – MARGINAL – Minor Injury, Minor System or Property Damage. IV – NEGLIGIBLE – First Aid, Minor System Repair.	RAC Assessment Code Matrix						
	RAC CODE MATRIX						
HAZARD SEVERITY	MISHAP PROBABILITY						
		A	B	C	D		
	I	1	1	2	3		
	II	1	2	3	4		
	III	2	3	4	5		
IV	3	4	5	5			
<u>MISHAP PROBABILITY</u> A – Frequent, B – Likely, C – Occasional, D – Unlikely							

To Be Completed by Command