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|---|--|---|---------------------------|----------|--|--|----------|----------|----------|--|
| Name of activity | Crate stack | | Reference number | | | | | | | |
| Location of activity | North Centre | | Ratio for activity | | | 2: 12 | | | | |
| Level of qualification needed to lead | RCI assessed or ERCA high ropes instructor and separate in house training and assessment provided and directed by WMCI MCI UIAGM Mountain Guide ERCA Instructor provider | | | | | | | | | |
| Level of qualification needed to second | RCI training and separate in house training and assessment directed by WMCI, MCI, IFMGA Mountain Guide or ERCA Instructor provider | | | | | | | | | |
| This document must be read in conjunction with | | | | | | | | | | |
| Key: L – Likelihood, S – Severity, R – Risk | | | | | Risk Score 1- 2 = Low 3- 4 = Medium 5- 6 = High | | | | | |
| Activity Description | Foreseeable Hazard | Who might be harmed and how? | L | S | R | Control measures | L | S | R | |
| Building the stack | Stack builders falling | Group members stack building falling, hitting the ground or their helpers, bodily impact injury | 3 | 2 | 5 | Stack builders belayed, PPE/FPE correctly fitted harness, tie in with rethreaded figure 8 knot | 1 | 2 | 3 | |
| Building the stack | Ropes twisting or entangling | Group members stack building colliding with each other, minor bodily injury | 3 | 2 | 5 | Supervision, stack builders check their ropes are not getting twisted | 1 | 2 | 3 | |
| Collapse of stack accidental or planned | Falling crates | Group members hit by falling crates, bodily impact injury | 3 | 2 | 5 | PP/FPE correctly fitted, controlled collapse, stack demolished in sections group behind net | 1 | 2 | 3 | |



| Activity Description | Foreseeable Hazard | Who might be harmed and how? | L | S | R | Control measures | L | S | R |
|-----------------------------|---|---|---|---|---|--|---|---|---|
| Stack builder | Fall trip, loss of balance | Any stack builder falls hits the ground, bodily impact injury, fatality | 2 | 3 | 5 | Tight rope particularly close to ground, direct supervision of belay process, stack builders not to hold their ropes | 1 | 3 | 4 |
| Release of Pro Traxion cam | Cutting or trapping fingers when releasing loaded Pro Traxion | Anybody releasing the Pro Traxion when loaded | 2 | 3 | 5 | Training in how to release a jammed Traxion and how to avoid in the first place direct supervision by instructor. Never leave Italian hitch without tying the hitch of. Never leave rope loaded jammed on Pro Traxion on its own | 1 | 3 | 4 |
| Stack building or assisting | Manual handling lifting | Stack builders or assistants strain lifting injury | 2 | 2 | 4 | Briefing, warm up, coach importance of team work | 1 | 2 | 3 |
| PPE/PPE equipment | Incorrect fitting or use of safety equipment | Any member of group, incorrect use or fitting of equipment, bodily injury or fatality | 2 | 3 | 5 | Vigilance and checking by Instructors, beware changeovers, check harnesses and links in safety chain | 1 | 3 | 4 |



| Activity Description | Foreseeable Hazard | Who might be harmed and how? | L | S | R | Control measures | L | S | R |
|-----------------------------------|---|--|---|---|---|--|--------------------------------|---|---|
| Belaying safety ropes | Incorrect use of system, unsafe belaying technique, distraction, lack of direct supervision particularly lowering | Any stack builder falling or being lowered, hitting the ground, bodily impact injury, fatality | 2 | 3 | 5 | Ensure direct supervision of the belay process, make sure both hands are on the control rope when lowering, tie of Italian hitch If student staying at height do not leave held jammed on pro traction only | 1 | 3 | 4 |
| Equipment failure | Damaged or equipment failure | Any member of the group, bodily impact injury, fatality | 2 | 3 | 5 | Dynamic risk assessment at site, safety checks, maintenance schedule | 1 | 3 | 4 |
| Handling crates | Damaged chipped crate edges | Any member of the group handling crates, cuts, abrasions | 2 | 2 | 4 | Wear gloves handling crates | 1 | 1 | 2 |
| Written by: Mike Margeson | | | | | | Date November 2011 | Signature Mike Margeson | | |
| Reviewed: by Mike Margeson | | | | | | Date November 2016 | Signature Mike Margeson | | |
| Reviewed: by Mike Margeson | | | | | | Date December 2017 | Signature Mike Margeson | | |
| Reviewed: by Mike Margeson | | | | | | Date November 2018 | Signature Mike Margeson | | |
| Reviewed: by Mike Margeson | | | | | | Date November 2020 | Signature Mike Margeson | | |

