Technical Rescue Qualifications

2019
Version 4

Swiftwater Rescue
Rope Rescue
Tactical Rescue
Confined Space Rescue
Companion Animal Rescue
Urban Search & Rescue

www.itra.international
About the International Technical Rescue Association

Purpose: Why ITRA

• To promote international best practices and standards for technical rescue.
• To improve the global portability and recognition of professional rescue qualifications.
• To provide local flexibility in delivering technical rescue training curriculum.

Vision: Our hope

• A collaborative and professional global technical rescue industry.

Mission: What we do

• Recognise and document locally delivered training according to global best practice.
• Provide Independent competency-based assessment for instructor and technical rescuers.
• Maintain a global central database of training records for members.
• Share safety related lessons learned from technical rescue activities to prevent harm.

Values: How we do it

Accountability:

• Training and assessment systems developed by industry for industry.
• A non-profit entity that is driven by and accountable to its membership.
• Instructors and Practitioners maintain their currency through robust re-certification process.
• Members acting professional and accountable under a Code of Conduct.

Transparency:

• Meaningful and genuine consultation with members on our work.
• Active use of social media to engage and keep members informed.
• Annual disclosure of our activities and finances to our members.
• Public register of qualified practitioners, instructors and assessors.

Working together:

• To share knowledge, skills, and experiences across all disciplines of technical rescue.
• Establish an international reporting system to highlight safety concerns within the industry.
About us: The International Technical Rescue Association (ITRA) was officially formed in Wayne, Pennsylvania, USA in May 2018 by well respected technical rescue instructors from around the world. The mandate was simple, to create a non-profit global body that would allow the delivery of local training standards through a network of internationally recognized technical rescue instructors.

We promote international best practices and standards for technical rescue, improve the global portability and recognition of professional rescue qualifications, and provide local flexibility in delivering technical rescue training curriculum.

Our Instructors have to undergo a rigorous assessment and re-certification process, ensuring in-house (agency) and commercial (independent) instructors are subject to external validation, incident reporting and as with all our members, a code of professional conduct.

Student achievement of learning objectives are recorded by our instructors on a global database which students can access as student members (membership fee applies). This means students who work for different organizations or are taught by different instructors have a central database to track their rescue training.

Our secure global database allows members to validate their training record online in real time, allowing incident commanders to make better task allocation decisions and for clients to verify instructor credentials. Optional ID cards will be available too.

We also offer formal practitioner qualifications that have globally set learning objectives that practitioners can be evaluated to using competency based assessment. These qualifications have three levels and will be available for a range of technical rescue disciplines to provide a globally recognized qualification that is set by the industry, for the industry using a not for profit model.

We also provide associate members and higher classifications of membership access to our global safety database and alert system. Ensuring the accident of today from the other side of the world, can be prevented tomorrow in your own area.

With over 300 teaching points, ITRA instructors can teach short or long courses to meet local needs including a cluster of teaching points that can aligned to local, state or national standards (i.e. NFPA, DEFRA, PUA, NZQA etc). Most training across the world is attendance based and therefore instructors have the ability to record all training given within their scope of approval onto the ITRA database. No more cookie cutter courses, Instructor’s can select what teaching points are needed and later recorded in the global database, which may work toward or align with local or national standards as well as ITRA qualifications.

Students pay a small annual fee to access their online student learning record (transcript), so apart from being an active member, the flexible teaching delivery can be centrally recorded at no extra cost as the instructor enters teaching point completions into the global database. This makes it ideal for capturing internal training, as such learning objectives can be easily recorded on the global database at no cost. Students can access their transcript online easily to validate what training they have undertaken through any ITRA Instructor.

Members will also be able to see what learning objectives they have not completed in preparation for assessment against global ITRA qualifications. Once a member has attended training for all the learning objectives in an ITRA qualification, they are then eligible for an introductory certificate (i.e. ITRA Introduction to Swiftwater Technician) which confirms attendance of all related learning objectives, but not necessarily competence. Where members want to seek a competency based qualification, every learning objective is then rigorously assessed for competence by an independent ITRA Assessor (i.e. the assessor cannot be from the same organization or family etc).

Upon the completion of achieving competence across the prescribed learning objectives for the respective ITRA qualification, the member is awarded an ITRA Qualification such as Rope Rescue Level 1 which becomes the first multi-standard and globally recognised technical rescue professional qualification. Naturally, ITRA qualifications are subject to three year re-evaluation and those holding a full ITRA qualification are also listed on the public register of ITRA qualified practitioners.

For instructors there are no mandatory student packets to purchase, unless your company produces/supplies/requires them as part of their own administrative processes.
## Qualification Graduate Profiles

### Swiftwater

<table>
<thead>
<tr>
<th>Level 1 (Responder)</th>
<th>Level 2 (Technician)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practitioners at this level are able to provide initial response to swiftwater and flood incidents, effect shore based or shallow water wading rescues, and be able to effect self-rescue.</td>
<td>Practitioners at this level are able to provide a technical response to non-complex swiftwater and flood incidents, including using boat on tether rescues and effecting in-water contact rescues.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 3A (Advanced)</th>
<th>Level 3 (Advanced)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practitioners at this level are able to carry out complex swiftwater and flood rescues or body recoveries including the use of non-motorised craft up to Class III environments and other high hazard environments such as low head dams and flood channels.</td>
<td>Practitioners at this level are able carry out complex high angle rescues and provide specialist advice.</td>
</tr>
</tbody>
</table>

### Rope

<table>
<thead>
<tr>
<th>Level 1 (Responder)</th>
<th>Level 2 (Technician)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practitioners at this level are able to as part of a team, but with minimal supervision are able to respond to a rope rescue incident, apply low angle stretcher manoeuvres, and perform basic rope access and ascent techniques to access and stabilise patients.</td>
<td>Practitioners at this level are able as part of a team, respond and lead rope rescue incidents in both the low and high angle environment.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 1T (Tactical Responder)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practitioners at this level are able to as part of a team, but with minimal supervision are able to respond to a high angle tactical and suicide intervention situations requiring basic rope access for both tactical operators and canines, using lowering, hauling, rappelling and ascending techniques as well as application of specialist equipment and techniques.</td>
</tr>
</tbody>
</table>

They must meet the ITRA Level 1 Rope Responder qualification requirements, as a co-requisite of being awarded this endorsement for tactical rope response (ITRA Level 1T Tactical Responder).
## Qualification Graduate Profiles

<table>
<thead>
<tr>
<th>Confined Space</th>
<th>Companion Animal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Level 1 (Responder)</strong></td>
<td><strong>Level 1 (Responder)</strong></td>
</tr>
<tr>
<td>Practitioners at this level are able to as part of a team, but with minimal supervision are able to respond to a confined space rescue, carry out a risk assessment, undertake basic atmospheric testing, complete entry documentation, and conduct non-entry or simple entry rescues or stabilize an incident whilst waiting for technician or above capable practitioners.</td>
<td>Practitioners at this level are able to, as part of a team, able to respond to disaster and emergency situations involving companion animals to effect basic rescue and evacuation, including using ground level or ladder accessed rescues. Practical light rescue (USAR) and flood safety skills are covered, along with wildfire and confined space awareness.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Level 2 (Technician)</strong></th>
<th><strong>Level 2 (Technician)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Practitioners at this level are able as part of a team, respond and lead confined space rescue incidents that may include irrespirable atmospheres and/or require basic rope systems to access or extricate the casualty as well as implement mechanical ventilation or exhaust systems. Practitioners are also able to undertake community risk management and pre-planning for confined space incidents.</td>
<td>Practitioners at this level are able to provide technical response to companion animal emergencies including low angle environments and basic swiftwater incidents. They are also capable of carrying out decontamination of companion animals and using low damage forced entry techniques for urban search and rescue.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Level 3A (Advanced)</strong></th>
<th><strong>Level 3 (Advanced)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Practitioners at this level are able carry out complex and extended confined space rescues including the use of supplied air respirators, a wide variety of gas and toxic substance detectors, and advanced rope systems, and provide specialist advice.</td>
<td>Practitioners at this level are able to carry out complex and extended technical rescues of companion animals, including high angle, swiftwater and structural collapse environments.</td>
</tr>
</tbody>
</table>

**Level 1N (Inert Responder)**

**Co-Requisite: Level 1 Confined Space Responder**

Practitioners who hold this endorsement are able to understand the requirements of inert confined space safety standards, undertake work inside inert atmospheres including operation of specialist anti-panic helmets and umbilical air/communication systems, primarily in a petro-chemical environment, and perform non-entry rescues from inert confined spaces.

*A Level 2N (Inert Technician) qualification is being developed and will follow on to enable practitioners to carry out entry-based rescues from inert confined spaces.*
## Qualification Graduate Profiles

### Urban Search & Rescue

**Level 1 Technician—Light**

Practitioners at this level are able to as part of a team, but with minimal supervision are able to respond to a structural collapse incident, carry out a risk assessment, undertake basic surface search and rescue, construct emergency shoring, use ladders and improvised low height rescue methods, and access light structures (wood, bamboo etc) or in the case of medium and heavy structures, prepare the incident scene for medium or heavy level capability response.

**Level 2 Technician—Medium**

Practitioners at this level are able as part of a team, respond to light and medium type structural collapse incidents. As they require rope and confined space qualifications as a pre-requisite, they are able to effect basic rope rescues from heights and confined spaces. They are able to carry out intermediate level shoring as well as gain access to reinforced and unreinforced masonry using a variety of cutting and breaching methods to locate and rescue entrapped victims.

**Level 3 Technician—Heavy**

Practitioners at this level are able carry out complex and extended structural collapse incidents involving heavy structures such as tilt-slab and reinforced concrete and steel. They also are able to construct advanced vertical and horizontal shoring systems and carry out advanced urban search and rescue tasks to rescue victims from all types of structures.

### Special Note: INSARAG/IFRC First Responder Course

Where delivered by an ITRA USAR Instructor, students who the INSARAG/IFRC First Responder Program may be awarded the Learning Objectives as marked with [UN blue](#) from the Level 1 USAR (Responder) syllabus. Further information on this package is available from [www.insarag.org](http://www.insarag.org)
### Swiftwater Rescue

<table>
<thead>
<tr>
<th>ITRA Ref #</th>
<th>Discipline</th>
<th>Learning Objective Title</th>
<th>Key*</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>General</td>
<td>Introduction to ITRA</td>
<td>K</td>
</tr>
<tr>
<td>101</td>
<td>General</td>
<td>Introduction to local incident command system</td>
<td>K</td>
</tr>
<tr>
<td>102</td>
<td>General</td>
<td>Introduction to local rescue and safety laws</td>
<td>K</td>
</tr>
<tr>
<td>103</td>
<td>General</td>
<td>Introduction to local response frameworks and protocols</td>
<td>K</td>
</tr>
<tr>
<td>104</td>
<td>Animal</td>
<td>Management of animals during emergencies</td>
<td>K</td>
</tr>
<tr>
<td>105</td>
<td>Water</td>
<td>Rescue communications (whistles and hand signals) on river</td>
<td>K</td>
</tr>
<tr>
<td>107</td>
<td>General</td>
<td>Basic command tactics and zoning for technical rescue</td>
<td>K</td>
</tr>
<tr>
<td>108</td>
<td>General</td>
<td>Knowledge of managing night/poor visibility operations for technical rescue</td>
<td>K</td>
</tr>
<tr>
<td>110</td>
<td>Rope</td>
<td>Basic knots for rescue</td>
<td>S</td>
</tr>
<tr>
<td>111</td>
<td>Rope</td>
<td>Basic equipment for rope rescue</td>
<td>K</td>
</tr>
<tr>
<td>114</td>
<td>Water</td>
<td>Introduction to river and flood hydrology</td>
<td>K</td>
</tr>
<tr>
<td>115</td>
<td>Water</td>
<td>Environmental care and biosecurity precautions</td>
<td>K</td>
</tr>
<tr>
<td>116</td>
<td>Water</td>
<td>Swiftwater and flood hazard management</td>
<td>K</td>
</tr>
<tr>
<td>117</td>
<td>Water</td>
<td>Medical considerations for swiftwater and flood</td>
<td>K</td>
</tr>
<tr>
<td>118</td>
<td>Water</td>
<td>Vehicle drowning prevention and escape methods</td>
<td>K</td>
</tr>
<tr>
<td>119</td>
<td>Water</td>
<td>Basic equipment for water rescue</td>
<td>K</td>
</tr>
<tr>
<td>120</td>
<td>Water</td>
<td>Contamination and decontamination for flooding</td>
<td>K</td>
</tr>
<tr>
<td>121</td>
<td>Water</td>
<td>Watercraft types and applications for rescue</td>
<td>K</td>
</tr>
<tr>
<td>122</td>
<td>Water</td>
<td>River Swimming (defensive and aggressive)</td>
<td>S</td>
</tr>
<tr>
<td>124</td>
<td>Water</td>
<td>Use of water rescue throw-bags (receive and throw)</td>
<td>S</td>
</tr>
<tr>
<td>125</td>
<td>Water</td>
<td>Shallow water crossing methods</td>
<td>S</td>
</tr>
<tr>
<td>126</td>
<td>Water</td>
<td>Entrapment drills and cinch techniques (shore based)</td>
<td>S</td>
</tr>
<tr>
<td>127</td>
<td>Water</td>
<td>Shore based vehicle-in-water stabilisation</td>
<td>S</td>
</tr>
<tr>
<td>131</td>
<td>Boat</td>
<td>Boat on tether (2 point)</td>
<td>S</td>
</tr>
<tr>
<td>132</td>
<td>Boat</td>
<td>Boat on tether (4 point)</td>
<td>O</td>
</tr>
<tr>
<td>138</td>
<td>Water</td>
<td>Inflatable fire hoses</td>
<td>K</td>
</tr>
<tr>
<td>147</td>
<td>Water</td>
<td>Culvert and storm drain hazards and rescue</td>
<td>K</td>
</tr>
<tr>
<td>149</td>
<td>Water</td>
<td>River and flood search strategies</td>
<td>K</td>
</tr>
<tr>
<td>154</td>
<td>Water</td>
<td>Reach based rescue (improvised or proprietary reach system)</td>
<td>K</td>
</tr>
<tr>
<td>158</td>
<td>Recovery</td>
<td>Water Body Recovery: Determining mode (Rescue vs. Recovery)</td>
<td>K</td>
</tr>
<tr>
<td>259</td>
<td>Rope</td>
<td>Selection and construction of single point anchors</td>
<td>S</td>
</tr>
<tr>
<td>345</td>
<td>Water</td>
<td>Throw bag hand tensioned pendulum line</td>
<td>K</td>
</tr>
</tbody>
</table>

Optional Learning Objectives are not required to be assessed, but may be taught by an Instructor for this qualification.

### Key

- **K** Knowledge/Theory
- **S** Skills/Practical
- **O** Optional: If required by agency
<table>
<thead>
<tr>
<th>Code</th>
<th>Category</th>
<th>Skill Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>106</td>
<td>General</td>
<td>Basic safety around aircraft</td>
</tr>
<tr>
<td>113</td>
<td>Rope</td>
<td>Simple mechanical advantage rigging</td>
</tr>
<tr>
<td>123</td>
<td>Water</td>
<td>In-water spinal rolls</td>
</tr>
<tr>
<td>128</td>
<td>Water</td>
<td>Tensioned diagonal/Zip line evacuation (self)</td>
</tr>
<tr>
<td>129</td>
<td>Water</td>
<td>Tensioned diagonal/Zip line attended (with casualty)</td>
</tr>
<tr>
<td>130</td>
<td>Water</td>
<td>Strainer wrap and negotiation</td>
</tr>
<tr>
<td>132</td>
<td>Boat</td>
<td>Boat on tether (4 point)</td>
</tr>
<tr>
<td>133</td>
<td>Water</td>
<td>Combat and towed swim</td>
</tr>
<tr>
<td>134</td>
<td>Water</td>
<td>Throw bagged rescue swimmer</td>
</tr>
<tr>
<td>135</td>
<td>Water</td>
<td>Live bait (tethered) swimmer rescue</td>
</tr>
<tr>
<td>136</td>
<td>Water</td>
<td>V lower rescue swimmer</td>
</tr>
<tr>
<td>137</td>
<td>Water</td>
<td>Capture device (Snag Plate) applications</td>
</tr>
<tr>
<td>139</td>
<td>Water</td>
<td>Boat on basic highline</td>
</tr>
<tr>
<td>141</td>
<td>Boat</td>
<td>Knowledge of boat unwrapping/un-pinning</td>
</tr>
<tr>
<td>143</td>
<td>Water</td>
<td>Knowledge of canals and aqueduct rescue hazards and rescue</td>
</tr>
<tr>
<td>145</td>
<td>Water</td>
<td>Knowledge of Low head dam rescue hazards and techniques</td>
</tr>
<tr>
<td>148</td>
<td>Water</td>
<td>Rescue PFD quick release</td>
</tr>
<tr>
<td>150</td>
<td>Water</td>
<td>Carry out river and flood rescue search</td>
</tr>
<tr>
<td>151</td>
<td>Water</td>
<td>Vehicle in water: wading access rescue</td>
</tr>
<tr>
<td>155</td>
<td>Water</td>
<td>Full face snorkel operation</td>
</tr>
<tr>
<td>156</td>
<td>Water</td>
<td>Diving mask and snorkel operation</td>
</tr>
<tr>
<td>174</td>
<td>General</td>
<td>Rescue communications (radios)</td>
</tr>
<tr>
<td>176</td>
<td>Water</td>
<td>Boat based parbuckling</td>
</tr>
<tr>
<td>177</td>
<td>Water</td>
<td>Rescues from ice, mud and other unstable surfaces</td>
</tr>
<tr>
<td>178</td>
<td>Water</td>
<td>Rescues from canal locks and sluices</td>
</tr>
<tr>
<td>179</td>
<td>Boat</td>
<td>Power boat types</td>
</tr>
<tr>
<td>213</td>
<td>Water</td>
<td>Knowledge of Line (rope) crossing methods</td>
</tr>
<tr>
<td>220</td>
<td>Rope</td>
<td>Independent belay/safety systems for rescue loads</td>
</tr>
<tr>
<td>225</td>
<td>Water</td>
<td>Vehicle behaviour in static and flowing water</td>
</tr>
<tr>
<td>344</td>
<td>Water</td>
<td>Using additional line to deflect zip lines</td>
</tr>
<tr>
<td>384</td>
<td>Water</td>
<td>Knowledge of curtain capture on tensioned diagonal</td>
</tr>
<tr>
<td>Code</td>
<td>Category</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
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<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>140</td>
<td>Water</td>
<td>Boat on reeving highline</td>
</tr>
<tr>
<td>142</td>
<td>Boat</td>
<td>Carry out unwrapping or un-pinning of boats</td>
</tr>
<tr>
<td>144</td>
<td>Water</td>
<td>Canal and aqueduct rescue methods</td>
</tr>
<tr>
<td>146</td>
<td>Water</td>
<td>Perform technical rescues at low head dams</td>
</tr>
<tr>
<td>152</td>
<td>Water</td>
<td>Hiking pack float</td>
</tr>
<tr>
<td>153</td>
<td>Water</td>
<td>Wader float/safety drill</td>
</tr>
<tr>
<td>157</td>
<td>Water</td>
<td>River fins operation in high flow situations</td>
</tr>
<tr>
<td>159</td>
<td>Recovery</td>
<td>Water Body Recovery: Local legal authority and roles</td>
</tr>
<tr>
<td>160</td>
<td>Recovery</td>
<td>Water Body Recovery: Disaster victim identification</td>
</tr>
<tr>
<td>161</td>
<td>Recovery</td>
<td>Water Body Recovery: Recovery management/ICS</td>
</tr>
<tr>
<td>162</td>
<td>Recovery</td>
<td>Water Body Recovery: Decomposition factors and forensic considerations</td>
</tr>
<tr>
<td>163</td>
<td>Recovery</td>
<td>Water Body Recovery: Infectious disease control and personal safety</td>
</tr>
<tr>
<td>164</td>
<td>Recovery</td>
<td>Water Body Recovery: Psychological considerations</td>
</tr>
<tr>
<td>165</td>
<td>Recovery</td>
<td>Water Body Recovery: Management of family and media</td>
</tr>
<tr>
<td>166</td>
<td>Recovery</td>
<td>Water Body Recovery: Recording and presenting evidence for law enforcement</td>
</tr>
<tr>
<td>167</td>
<td>Recovery</td>
<td>Water Body Recovery: Body recovery equipment and techniques</td>
</tr>
<tr>
<td>168</td>
<td>Recovery</td>
<td>Water Body Recovery: Recovery methods from highline</td>
</tr>
<tr>
<td>169</td>
<td>Recovery</td>
<td>Water Body Recovery: Recovery methods using advanced throw bag techniques</td>
</tr>
<tr>
<td>170</td>
<td>Recovery</td>
<td>Water Body Recovery: Recovery methods from boat or board</td>
</tr>
<tr>
<td>171</td>
<td>Recovery</td>
<td>Water Body Recovery: Specialist Equipment (Mr. Flexi, Captain Hook)</td>
</tr>
<tr>
<td>172</td>
<td>Boat</td>
<td>Basic paddle boat handing Class III</td>
</tr>
<tr>
<td>173</td>
<td>Water</td>
<td>Advanced swimming Class III</td>
</tr>
<tr>
<td>175</td>
<td>Rope</td>
<td>Rescue communications (whistles and hand signals) on rope</td>
</tr>
<tr>
<td>211</td>
<td>Boat</td>
<td>Inflatable boat repair (PVC/Hypalon patching)</td>
</tr>
<tr>
<td>212</td>
<td>Boat</td>
<td>Basic paddle boat handling Class I-II</td>
</tr>
<tr>
<td>214</td>
<td>Water</td>
<td>Perform line (rope) crossing methods</td>
</tr>
<tr>
<td>219</td>
<td>Water</td>
<td>River board or floating adjunct operation</td>
</tr>
<tr>
<td>221</td>
<td>Water</td>
<td>Knowledge of SCUBA operations and limitations</td>
</tr>
<tr>
<td>222</td>
<td>Water</td>
<td>In water victim release/escape tactics</td>
</tr>
<tr>
<td>223</td>
<td>Water</td>
<td>In water victim towed swim using adjunct</td>
</tr>
<tr>
<td>224</td>
<td>Water</td>
<td>Below surface drowned victim recovery (non-SCUBA)</td>
</tr>
<tr>
<td>235</td>
<td>Water</td>
<td>Night Rescue Exercise - Water</td>
</tr>
<tr>
<td>310</td>
<td>Water</td>
<td>Fitting and operation of hybrid rescue swimmer vests</td>
</tr>
<tr>
<td>316</td>
<td>Rope</td>
<td>Improvised harnesses</td>
</tr>
<tr>
<td>317</td>
<td>General</td>
<td>Lockout/Tag Out Systems (including for elevated structures)</td>
</tr>
<tr>
<td>346</td>
<td>Water</td>
<td>Throw bag hand tensioned pendulum line</td>
</tr>
<tr>
<td>386</td>
<td>Water</td>
<td>Cargo net on tensioned diagonal</td>
</tr>
<tr>
<td>500</td>
<td>Rope</td>
<td>Improvised (non-mechanical) rappelling and ascending</td>
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**Pre-requisite Qualification:**

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<th>Code</th>
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<tr>
<td>172</td>
<td>Boat</td>
<td>Basic paddle boat handing Class III</td>
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<td>173</td>
<td>Water</td>
<td>Advanced swimming Class III</td>
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<td>180</td>
<td>Boat</td>
<td>Power boat pre-launch checks</td>
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<td>181</td>
<td>Boat</td>
<td>Power boat engine fault finding/solving</td>
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<td>182</td>
<td>Boat</td>
<td>Power boat flood hydrology considerations</td>
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<td>183</td>
<td>Boat</td>
<td>Power boat launching and trailering</td>
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<td>184</td>
<td>Boat</td>
<td>Power boat trip planning</td>
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<tr>
<td>185</td>
<td>Boat</td>
<td>Power boat maritime rules and river laws/by-laws</td>
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<tr>
<td>186</td>
<td>Boat</td>
<td>Power boat marine radio operation and distress procedure</td>
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<td>187</td>
<td>Boat</td>
<td>Power boat engine start up procedure</td>
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<td>188</td>
<td>Boat</td>
<td>Power boat basic low speed manoeuvring</td>
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<td>189</td>
<td>Boat</td>
<td>Power boat advanced high speed manoeuvring</td>
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<tr>
<td>190</td>
<td>Boat</td>
<td>Power boat weight and balance/team coordination/calls</td>
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<td>191</td>
<td>Boat</td>
<td>Power boat holding station</td>
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<td>192</td>
<td>Boat</td>
<td>Power boat J turns</td>
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<td>193</td>
<td>Boat</td>
<td>Power boat eddy glide</td>
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<td>Boat</td>
<td>Power boat man over board drill</td>
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<td>195</td>
<td>Boat</td>
<td>Power boat rescue swimmer drop off and pick up</td>
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<td>Power boat casualty pick up/tiller/engine procedures</td>
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<td>Power boat towing another craft</td>
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<td>Power boat pacing with another craft</td>
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<td>Power boat flips and righting</td>
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<td>Power boat search patterns</td>
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<td>201</td>
<td>Boat</td>
<td>Power boat night operations</td>
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<td>202</td>
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<td>204</td>
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<td>Power boat fast landing</td>
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<td>Power boat mid-stream object touch</td>
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<td>Power boat emergency procedures (fire, flip, loss of engine)</td>
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<td>207</td>
<td>Boat</td>
<td>Power boat recommissioning after use</td>
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<td>208</td>
<td>Boat</td>
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<td>211</td>
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<td>Inflatable boat repair (PVC/Hypalon patching)</td>
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<td>341</td>
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<td>Power boat handling Class 0/Flat water</td>
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<tr>
<td>342</td>
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<td>Power boat handling - docking approach and departure</td>
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<tr>
<td>343</td>
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<td>Power boat - boat assembly and motor mounting</td>
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### Swiftwater Rescue 3V

**Pre-requisite Qualification:** Swiftwater 2

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<td>226</td>
<td>Vehicle sinking behaviour</td>
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<td>227</td>
<td>Vehicle anatomy for rescue</td>
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<tr>
<td>228</td>
<td>Hazards of vehicles in water</td>
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<td>229</td>
<td>Rescue tactics for vehicles in water</td>
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<td>Anchoring of vehicles in water</td>
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<td>Glass management during vehicle extrication/rescue</td>
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<td>Vehicle in water size up</td>
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<td>233</td>
<td>Safety considerations for working around vehicles in water</td>
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<td>Contact rescues of victims from vehicle in water</td>
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<td>Basic command tactics and zoning for technical rescue</td>
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<td>Knowledge of managing night/poor visibility operations for technical rescue</td>
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<td>Basic equipment for rope rescue</td>
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<td>Simple mechanical advantage rigging</td>
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<td>Rescue communications (whistles and hand signals) on rope</td>
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<td>Independent belay/safety systems for rescue loads</td>
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<td>Safety systems and protocols for rope rescue (safety officer, checking options)</td>
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<td>258</td>
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<td>Protection of rope systems (edge protection, hazard avoidance)</td>
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<td>Rope</td>
<td>Selection and construction of single point anchors</td>
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<td>261</td>
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<td>Edge lines and/or work positioning systems</td>
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<td>262</td>
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<td>Personal ascending</td>
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<td>263</td>
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<td>Personal descending</td>
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<td>264</td>
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<td>On-rope self rescue</td>
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<td>265</td>
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<td>Select, construct and operate lowering system - low angle</td>
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<td>266</td>
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<td>Select, construct and operate raising system (mechanical advantage) - low angle</td>
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<td>269</td>
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<td>Patient packaging into litter/stretcher</td>
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<td>270</td>
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<td>Preparing litter/stretcher for low angle evacuation</td>
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<td>272</td>
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<td>Change over on-rope descend to ascend</td>
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<td>273</td>
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<td>Change over on-rope ascend to descend</td>
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<td>284</td>
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<td>Litter attendant rigging and operation - low angle</td>
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<td>294</td>
<td>Rope</td>
<td>Rope rescue medical considerations (suspenion trauma, vertigo etc)</td>
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<td>Co-requisite Qualification:</td>
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<tr>
<td>502</td>
<td>Rope</td>
<td>Perform invert while rappelling</td>
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<tr>
<td>503</td>
<td>Tactical</td>
<td>Rig and operate tactical descender systems</td>
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<td>504</td>
<td>Tactical</td>
<td>Perform weapon management on rope</td>
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<td>505</td>
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<td>Operate self-belay and ground-belay in tactical rappel activities</td>
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<tr>
<td>506</td>
<td>Tactical</td>
<td>Perform tactical window and balcony entries on rappel with tactical PPE</td>
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<tr>
<td>507</td>
<td>Tactical</td>
<td>Knowledge of specialized tactical rope access systems and equipment</td>
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<td>508</td>
<td>Tactical</td>
<td>Carry out tactical rope operations in limited visibility and with noise distractions</td>
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<td>509</td>
<td>Rope</td>
<td>Rig and operate micro-descenders and bail out kits using thin rope systems</td>
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<tr>
<td>510</td>
<td>Tactical</td>
<td>Prepare canine for tactical entry in high angle environment</td>
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<td>511</td>
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<td>Rig and operate lowering system for tactical applications</td>
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<tr>
<td>517</td>
<td>General</td>
<td>Lockout/Tag Out Systems (including for elevated structures)</td>
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<tr>
<td>289</td>
<td>Rope</td>
<td>Rope rescue physics - vector forces, fall factors, slope loading, T method</td>
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<td>K</td>
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<tr>
<td>299</td>
<td>Rope</td>
<td>Releasable/Contingency Anchors</td>
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<td>512</td>
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<td>Perform tactical at-height restraint techniques for suicide intervention</td>
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<td>513</td>
<td>Tactical</td>
<td>Prepare, rig and deploy ropes for tactical activities</td>
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<td>514</td>
<td>Tactical</td>
<td>Don and check tactical and rope protective equipment to ensure compatibility</td>
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### Pre-requisite Qualification:

**Rope Rescue 1**

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<tr>
<td>106</td>
<td>General</td>
<td>Basic safety around aircraft</td>
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<td>267</td>
<td>Rope</td>
<td>Select, construct and operate lowering system - high angle</td>
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<tr>
<td>268</td>
<td>Rope</td>
<td>Select, construct and operate raising system (mechanical advantage) - high angle</td>
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<td>271</td>
<td>Rope</td>
<td>Preparing litter/stretcher for high angle evacuation</td>
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<td>274</td>
<td>Rope</td>
<td>Knot pass on-rope ascend</td>
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<td>275</td>
<td>Rope</td>
<td>Knot pass on-rope descend</td>
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<td>276</td>
<td>Rope</td>
<td>Knot pass on belay</td>
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<tr>
<td>277</td>
<td>Rope</td>
<td>Knot pass on hauling system/mechanical advantage</td>
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<td>Knot pass on lowering system</td>
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<td>281</td>
<td>Rope</td>
<td>Select and erect artificial high directional</td>
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<td>282</td>
<td>Rope</td>
<td>Horizontal highline without reeve</td>
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<td>285</td>
<td>Rope</td>
<td>Litter attendant rigging and operation - high angle</td>
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<tr>
<td>286</td>
<td>Rope</td>
<td>System change over - lower to raise</td>
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<tr>
<td>287</td>
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<td>System change over - raise to lower</td>
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<tr>
<td>289</td>
<td>Rope</td>
<td>Rope rescue physics - vector forces, fall factors, slope loading, T method</td>
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<td>290</td>
<td>Rope</td>
<td>Rope rescue - system analysis (whiteboard analysis, critical point, safety factors)</td>
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<td>291</td>
<td>Rope</td>
<td>Pick off rescue - unsuspended/unsecured victim (i.e. from ledge)</td>
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<td>Rope</td>
<td>Negotiating litter over edge</td>
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<td>311</td>
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<td>Vehicle anchors</td>
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<td>313</td>
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<td>Knowledge of deadman anchors</td>
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<td>315</td>
<td>Rope</td>
<td>Load Releasing Hitches (mariners, radium etc)</td>
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<td>316</td>
<td>Rope</td>
<td>Improvised harnesses</td>
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<td>317</td>
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<td>Lockout/Tag Out Systems (including for elevated structures)</td>
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<td>Compound and complex mechanical advantage systems</td>
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### Pre-requisite Qualification:

**Rope Rescue 2**

### Rope Rescue Advanced

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<td>109</td>
<td>General Performing technical rescue activities at night/in poor visibility conditions</td>
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<tr>
<td>279</td>
<td>Rope Tower climbing technique</td>
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<tr>
<td>280</td>
<td>Rope Tree climbing technique</td>
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<tr>
<td>283</td>
<td>Rope Horizontal highline with reeve</td>
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<td>288</td>
<td>Rope Advanced knowledge of technical rope equipment</td>
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<tr>
<td>292</td>
<td>Rope Pick off rescue - suspended victim (including, from fall arrest or ascenders)</td>
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<tr>
<td>293</td>
<td>Rope Mid-face litter scoop</td>
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<td>295</td>
<td>Rope Retrievable rappel</td>
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<td>296</td>
<td>Rope On-rope self belay</td>
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<td>297</td>
<td>Rope On-rope bottom belay</td>
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<td>298</td>
<td>Rope On-rope back up device</td>
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<td>299</td>
<td>Rope Releasable/Contingency Anchors</td>
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<td>301</td>
<td>Rope Passing a Rigging Deviation</td>
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<td>304</td>
<td>Rope Vertical fall arrest systems</td>
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<td>305</td>
<td>Rope On-rope: Line transfer</td>
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<td>308</td>
<td>Rope Applications and operation of micro-haul systems (Jiggers, Aztek etc)</td>
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<td>309</td>
<td>Rope Night Rescue Exercise - Rope</td>
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<td>314</td>
<td>Rope Establish dead-man anchor</td>
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<td>339</td>
<td>Rope Guiding Line off-set (lower)</td>
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<td>368</td>
<td>Rope Advanced artificial high directionals</td>
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<td>369</td>
<td>Rope Additional knots</td>
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Optional Learning Objectives are not required to be assessed, but may be taught by an Instructor for this qualification.
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<td>Introduction to local rescue and safety laws</td>
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<td>General</td>
<td>Introduction to local response frameworks and protocols</td>
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<td>107</td>
<td>General</td>
<td>Basic command tactics and zoning for technical rescue</td>
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<td>Introducing Standard Operating Procedures or Best Practice Guidelines</td>
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<td>Technical equipment inventories and maintenance procedures</td>
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<td>Safety systems and protocols for rope rescue (safety officer, checking options)</td>
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<td>Edge lines and/or work positioning systems</td>
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<td>Lockout/Tag Out Systems (including for elevated structures)</td>
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<td>Identification, types and definition of confined space</td>
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<td>Basic artificial directional for confined space (set up and configurations)</td>
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<td>Atmospheric zoning</td>
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<td>Casualty profiles, survivability and determining the mode (rescue vs. recovery)</td>
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<td>Protective equipment options for casualties</td>
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<td>432</td>
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<td>Fire mitigation, detection, suppression and response</td>
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<td>Types, selection and limitations of respiratory protective equipment</td>
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<td>464</td>
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<td>Complete and review documentation for confined space entry</td>
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### Pre-requisite Qualification:

Confined Space 1

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<td>Don, operate and test protective equipment for inert confined space entry including anti-panic helmets</td>
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<td>Perform non-entry retrieval rescues of entrant wearing umbilical systems from inert confined space</td>
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<td>Operate emergency air supply as entrant when umbilical system compromised</td>
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<td>Document safety records and permits for inert confined space work</td>
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### Pre-requisite Qualification:

**Confined Space 1**

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<td>Simple mechanical advantage rigging</td>
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<td>Rope rescue hazard identification and</td>
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<td>Gas detection common terms (TWA, LEL, UEL,</td>
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<td>Half Back etc) and patient packaging</td>
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### Confined Space Advanced

**Pre-requisite Qualification:** Confined Space 2

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<td>263</td>
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<td>Personal descending</td>
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<td>267</td>
<td>Rope</td>
<td>Select, construct and operate lowering system - high angle</td>
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<td>268</td>
<td>Rope</td>
<td>Select, construct and operate raising system (mechanical advantage) - high angle</td>
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<td>269</td>
<td>Rope</td>
<td>Patient packaging into litter/stretcher</td>
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<td>271</td>
<td>Rope</td>
<td>Preparing litter/stretcher for high angle evacuation</td>
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<td>Rope rescue - system analysis (whiteboard analysis, critical point, safety factors)</td>
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<td>Pick off rescue - suspended victim (including, from fall arrest or ascenders)</td>
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<td>Operate powered air respirators</td>
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<td>Operate Supplied airline breathing apparatus (SABA)</td>
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<td>Operate Escape sets (i.e. ELSA)</td>
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<td>Limited visibility guiding (escape hand) line operation</td>
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<td>Rescue communications (whistles and hand signals) on river</td>
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<tr>
<td>330</td>
<td>Structural</td>
<td>USAR response system and team typing</td>
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<td>331</td>
<td>Structural</td>
<td>USAR phases of rescue (REPEAT)</td>
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<tr>
<td>332</td>
<td>Structural</td>
<td>USAR hazard identification and management, including PPE</td>
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<tr>
<td>333</td>
<td>Structural</td>
<td>Building construction methods</td>
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<tr>
<td>334</td>
<td>Structural</td>
<td>Structural collapse patterns and void spaces</td>
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<td>335</td>
<td>Structural</td>
<td>Surface search and rescue procedures and techniques (line and hail; circle and hail)</td>
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<tr>
<td>336</td>
<td>Structural</td>
<td>Search/victim marking systems: FEMA</td>
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<tr>
<td>337</td>
<td>Structural</td>
<td>Search/victim marking systems: INSARAG/UN</td>
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<tr>
<td>340</td>
<td>Boat</td>
<td>Basic paddle boat handling Class 0/Flat Water</td>
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<tr>
<td>347</td>
<td>Structural</td>
<td>Stretcher passing over rubble</td>
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<tr>
<th>No.</th>
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<tr>
<td>350</td>
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<td>355</td>
<td>Structural</td>
<td>Emergency isolation of utilities (electricity, water, gas etc)</td>
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<td>356</td>
<td>Structural</td>
<td>Identification of hazardous materials incidents (including use of Emergency Response Guides)</td>
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<td>361</td>
<td>Structural</td>
<td>Knowledge of national, regional and international teams and support mechanisms</td>
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<tr>
<td>399</td>
<td>Confined Space</td>
<td>Identification, types and definition of confined space</td>
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<td>Confined Space</td>
<td>Knowledge of confined space hazards</td>
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<tr>
<td>455</td>
<td>Animal</td>
<td>Operate handheld microchip scanner to detect companion animal implant</td>
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<td>456</td>
<td>Animal</td>
<td>Understand local zoonosis risks during emergencies</td>
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<tr>
<td>457</td>
<td>Structural</td>
<td>Understand search marking systems and low damage marking options</td>
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<tr>
<td>461</td>
<td>General</td>
<td>Demonstrate knowledge of protection of personal safety at vegetation fires</td>
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<tr>
<td>463</td>
<td>Animal</td>
<td>Demonstrate knowledge of ITRA animal search and rescue marking system</td>
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### Pre-requisite Qualification:
*Companion Animal Rescue 1*

<table>
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<tr>
<th>Code</th>
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<tr>
<td>106</td>
<td>General</td>
<td>Basic safety around aircraft</td>
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<td>109</td>
<td>General</td>
<td>Performing technical rescue activities at night/in poor visibility conditions</td>
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<td>110</td>
<td>Rope</td>
<td>Basic knots for rescue</td>
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<td>111</td>
<td>Rope</td>
<td>Basic equipment for rope rescue</td>
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<td>113</td>
<td>Rope</td>
<td>Simple mechanical advantage rigging</td>
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<tr>
<td>115</td>
<td>Water</td>
<td>Environmental care and biosecurity precautions</td>
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<td>123</td>
<td>Water</td>
<td>In-water spinal rolls</td>
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<td>127</td>
<td>Water</td>
<td>Shore based vehicle-in-water stabilisation</td>
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<td>128</td>
<td>Water</td>
<td>Tensioned diagonal/Zip line evacuation (self)</td>
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<td>Water</td>
<td>Tensioned diagonal/Zip line rescue (attended victim)</td>
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<td>130</td>
<td>Water</td>
<td>Strainer wrap and negotiation</td>
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<td>Boat</td>
<td>Boat on tether (2 point)</td>
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<td>Boat</td>
<td>Boat on tether (4 point)</td>
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<td>134</td>
<td>Water</td>
<td>Throw bagged rescue swimmer</td>
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<td>148</td>
<td>Water</td>
<td>Rescue PFD quick release</td>
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<td>153</td>
<td>Water</td>
<td>Wader float/safety drill</td>
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<td>174</td>
<td>General</td>
<td>Rescue communications (radios)</td>
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<td>Rope</td>
<td>Rescue communications (whistles and hand signals) on rope</td>
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<td>Independent belay/safety systems for rescue loads</td>
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<td>Rope rescue hazard identification and management</td>
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<td>255</td>
<td>General</td>
<td>Introducing Standard Operating Procedures or Best Practice Guidelines</td>
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<td>256</td>
<td>General</td>
<td>Technical equipment inventories and maintenance procedures</td>
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<td>257</td>
<td>Rope</td>
<td>Safety systems and protocols for rope rescue (safety officer, checking options)</td>
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<td>258</td>
<td>Rope</td>
<td>Protection of rope systems (edge protection, hazard avoidance)</td>
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<td>Rope</td>
<td>Selection and construction of single point anchors</td>
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<td>261</td>
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<td>Edge lines and/or work positioning systems</td>
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<td>265</td>
<td>Rope</td>
<td>Select, construct and operate lowering system - low angle</td>
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<td>266</td>
<td>Rope</td>
<td>Select, construct and operate raising system (mechanical advantage) - low angle</td>
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<td>276</td>
<td>Rope</td>
<td>Knot pass on belay</td>
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<td>277</td>
<td>Rope</td>
<td>Knot pass on hauling system/mechanical advantage</td>
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<td>278</td>
<td>Rope</td>
<td>Knot pass on lowering system</td>
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<td>280</td>
<td>Rope</td>
<td>Tree climbing technique</td>
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<td>286</td>
<td>Rope</td>
<td>System change over - lower to raise</td>
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<td>287</td>
<td>Rope</td>
<td>System change over - raise to lower</td>
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<td>304</td>
<td>Rope</td>
<td>Vertical fall arrest systems</td>
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<td>311</td>
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<td>Vehicle anchors</td>
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<td>Rope</td>
<td>Picket/ground plate anchors</td>
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<td>Rope</td>
<td>Knowledge of deadman anchors</td>
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<tr>
<td>315</td>
<td>Rope</td>
<td>Load Releasing Hitches (mariners, radium etc)</td>
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<tr>
<td>316</td>
<td>Rope</td>
<td>Improvised harnesses</td>
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<tr>
<td>325</td>
<td>Animal</td>
<td>Rigging small animal for vertical evacuation</td>
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<tr>
<td>326</td>
<td>Animal</td>
<td>Attending small animal in the high angle environment (lower and raise)</td>
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<tr>
<th>Code</th>
<th>Category</th>
<th>Task Description</th>
<th>Level</th>
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<tbody>
<tr>
<td>345</td>
<td>Water</td>
<td>Throw bag hand tensioned pendulum line</td>
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<tr>
<td>363</td>
<td>Structural</td>
<td>Operate hand tools to gain access into light structure collapse (cutting and breaking)</td>
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<tr>
<td>385</td>
<td>Water</td>
<td>Curtain capture on tensioned diagonal</td>
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<tr>
<td>386</td>
<td>Water</td>
<td>Cargo net on tensioned diagonal</td>
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<tr>
<td>453</td>
<td>Structural</td>
<td>Apply low damage forced entry techniques to gain access to a building during an emergency</td>
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<tr>
<td>462</td>
<td>Animal</td>
<td>Carry out decontamination of animals during an emergency or simulation</td>
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<tr>
<td>474</td>
<td>Animal</td>
<td>Demonstrate knowledge of personal safety around exotic animals</td>
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</table>
Pre-requisite Qualification:
Companion Animal Rescue 2

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<td>133</td>
<td>Water</td>
<td>Combat and towed swim</td>
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<td>135</td>
<td>Water</td>
<td>Live bait (tethered) swimmer rescue</td>
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<td>136</td>
<td>Water</td>
<td>V lower rescue swimmer</td>
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<td>137</td>
<td>Water</td>
<td>Capture device (Snag Plate) applications</td>
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<td>260</td>
<td>Rope</td>
<td>Selection and construction of multi point anchors</td>
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<td>262</td>
<td>Rope</td>
<td>Personal ascending</td>
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<td>263</td>
<td>Rope</td>
<td>Personal descending</td>
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<tr>
<td>264</td>
<td>Rope</td>
<td>On-rope self rescue</td>
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<tr>
<td>267</td>
<td>Rope</td>
<td>Select, construct and operate lowering system - high angle</td>
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<tr>
<td>268</td>
<td>Rope</td>
<td>Select, construct and operate raising system (mechanical advantage) - high angle</td>
</tr>
<tr>
<td>272</td>
<td>Rope</td>
<td>Change over on-rope descend to ascend</td>
</tr>
<tr>
<td>273</td>
<td>Rope</td>
<td>Change over on-rope ascend to descend</td>
</tr>
<tr>
<td>274</td>
<td>Rope</td>
<td>Knot pass on-rope ascend</td>
</tr>
<tr>
<td>275</td>
<td>Rope</td>
<td>Knot pass on-rope descend</td>
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<tr>
<td>281</td>
<td>Rope</td>
<td>Select and erect artificial high directional</td>
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<tr>
<td>282</td>
<td>Rope</td>
<td>Horizontal highline without reeve</td>
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<tr>
<td>283</td>
<td>Rope</td>
<td>Horizontal highline with reeve</td>
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<tr>
<td>288</td>
<td>Rope</td>
<td>Advanced knowledge of technical rope equipment</td>
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<tr>
<td>289</td>
<td>Rope</td>
<td>Rope rescue physics - vector forces, fall factors, slope loading, T method</td>
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<tr>
<td>290</td>
<td>Rope</td>
<td>Rope rescue - system analysis (whiteboard analysis, critical point, safety factors)</td>
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<tr>
<td>291</td>
<td>Rope</td>
<td>Pick off rescue - unsuspended/unsecured victim (i.e. from ledge)</td>
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<tr>
<td>294</td>
<td>Rope</td>
<td>Rope rescue medical considerations (suspension trauma, vertigo etc)</td>
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<td>309</td>
<td>Rope</td>
<td>Night Rescue Exercise - Rope</td>
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<tr>
<td>314</td>
<td>Rope</td>
<td>Establish deadman anchor</td>
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<tr>
<td>338</td>
<td>Rope</td>
<td>Compound and complex mechanical advantage systems</td>
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<tr>
<td>362</td>
<td>Structural</td>
<td>Lifting using bars/levers, rollers, wedges and cribbing to access/stabilise light structures</td>
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<tr>
<td>368</td>
<td>Rope</td>
<td>Advanced artificial high directionals</td>
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<tr>
<td>369</td>
<td>Rope</td>
<td>Additional knots</td>
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<tr>
<td>454</td>
<td>General</td>
<td>Operate elevated work platform to gain access or carry out rescue</td>
</tr>
<tr>
<td>458</td>
<td>Animal</td>
<td>Participate in complex flood rescue exercise involving rescue of mock animals</td>
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<tr>
<td>459</td>
<td>Animal</td>
<td>Participate in a complex high angle rescue exercise involving rescue of mock animals</td>
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<tr>
<td>460</td>
<td>Animal</td>
<td>Participate in a complex structural collapse exercise involving rescue of mock animals</td>
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<tr>
<td>LO Ref</td>
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<tr>
<td>100</td>
<td>General</td>
<td>Introduction to ITRA</td>
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<td>101</td>
<td>General</td>
<td>Introduction to local incident command system</td>
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<tr>
<td>102</td>
<td>General</td>
<td>Introduction to local rescue and safety laws</td>
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<tr>
<td>103</td>
<td>General</td>
<td>Introduction to local response frameworks and protocols</td>
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<tr>
<td>104</td>
<td>Animal</td>
<td>Management of animals during emergencies</td>
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<tr>
<td>107</td>
<td>General</td>
<td>Basic command tactics and zoning for technical rescue</td>
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<tr>
<td>108</td>
<td>General</td>
<td>Knowledge of managing night/poor visibility operations for technical rescue</td>
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<tr>
<td>110</td>
<td>Rope</td>
<td>Basic knots for rescue</td>
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<tr>
<td>177</td>
<td>Water</td>
<td>Rescues from ice, mud and other unstable surfaces</td>
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<tr>
<td>318</td>
<td>General</td>
<td>Basic ladder operation</td>
</tr>
<tr>
<td>329</td>
<td>Structural</td>
<td>JSAR scene management/initial actions</td>
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<tr>
<td>330</td>
<td>Structural</td>
<td>JSAR response system and team typing</td>
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<tr>
<td>331</td>
<td>Structural</td>
<td>JSAR phases of rescue (REPEAT)</td>
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<tr>
<td>332</td>
<td>Structural</td>
<td>JSAR hazard identification and risk management, including PPE and collapse safety zones</td>
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<tr>
<td>333</td>
<td>Structural</td>
<td>Building construction methods</td>
</tr>
<tr>
<td>334</td>
<td>Structural</td>
<td>Structural collapse patterns, void spaces and secondary collapse risks</td>
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<tr>
<td>335</td>
<td>Structural</td>
<td>Surface search and rescue procedures and techniques (visual/verbal; line and hail; circle and hail)</td>
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<tr>
<td>336</td>
<td>Structural</td>
<td>Search/victim marking systems: FEMA</td>
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<tr>
<td>337</td>
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<td>Search/victim marking systems: INSARAG/UN</td>
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<tr>
<td>347</td>
<td>Structural</td>
<td>Stretcher passing over rubble</td>
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<tr>
<td>350</td>
<td>Structural</td>
<td>Building search methods</td>
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<tr>
<td>355</td>
<td>Structural</td>
<td>Emergency isolation of utilities (electricity, water, gas etc)</td>
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<tr>
<td>356</td>
<td>Structural</td>
<td>Identification of hazardous materials incidents (including use of Emergency Response Guides)</td>
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<td>Structural</td>
<td>Knowledge of national, regional and international teams and support mechanisms</td>
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<tr>
<td>399</td>
<td>Confined</td>
<td>Identification, types and definition of confined space</td>
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<tr>
<td>400</td>
<td>Confined</td>
<td>Knowledge of confined space hazards</td>
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<tr>
<td>457</td>
<td>Structural</td>
<td>Understand search marking systems and low damage marking options</td>
</tr>
<tr>
<td>463</td>
<td>Animal</td>
<td>Demonstrate knowledge of ITRA animal search and rescue marking system</td>
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<tr>
<td>357</td>
<td>General</td>
<td>Establishment of casualty collection points</td>
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<td>358</td>
<td>General</td>
<td>Apply mass casualty triage (i.e. START)</td>
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<tr>
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<td>Knowledge of UN On Scene Operations Coordination Centre (OSOCC)</td>
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<tr>
<td>360</td>
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<td>Knowledge of INSARAG guidelines, methodology and key terms/abbreviations</td>
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<td>485</td>
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<td>Immobilise and extricate patients from damaged structures</td>
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<tr>
<td>354</td>
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<td>Disaster reconnaissance/impact assessment information reporting/mobile apps (i.e. INSARAG Kobo)</td>
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<tr>
<td>362</td>
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<td>Load lifting, moving and stabilization techniques using levers, rollers and cribbing for light structures</td>
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<td>Emergency shorting for damaged light structures (FEMA Class 1: T Pot etc)</td>
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<td>Rescue communications for USAR (INSARAG signals)</td>
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<td>Carry out non-technical improved stretcher lowers from low height structures</td>
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<td>486</td>
<td>Structural</td>
<td>Participate in mock urban search and rescue exercise involving rescue from persons from light structures</td>
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<td>487</td>
<td>Structural</td>
<td>Knowledge of medical considerations for urban search and rescue</td>
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<tr>
<td>371</td>
<td>Structural</td>
<td>Coordination and management of spontaneous volunteers at a disaster site</td>
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<td>537</td>
<td>Structural</td>
<td>Perform breaching of timber — light structures (50mm thick)</td>
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<tr>
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<td>Perform breaching of metal — light structures (26 gauge/0.55mm)</td>
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</tbody>
</table>

* These learning objectives align to the INSARAG/IFRC First Responder Training Package
### Pre-requisite Qualifications:

- ITRA USAR Level 1
- ITRA Rope Level 1
- ITRA Confined Space Level 1

#### Learning Objectives (LO) Reference:

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<th>LO Ref</th>
<th>Subject</th>
<th>Learning Objective</th>
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<tr>
<td>106</td>
<td>General</td>
<td>Basic safety around aircraft</td>
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<td>539</td>
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<td>Knowledge of structural triage systems</td>
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<td>540</td>
<td>Structural</td>
<td>Knowledge of structures, materials and damage types</td>
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<td>541</td>
<td>Structural</td>
<td>Knowledge of USAR rescue strategy and techniques</td>
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<td>542</td>
<td>Structural</td>
<td>Construct window and door shoring systems (FEMA Class 2)</td>
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<td>543</td>
<td>Structural</td>
<td>Construct vertical shoring system for damaged medium structures (FEMA Class 2)</td>
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<tr>
<td>544</td>
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<td>Perform breaching of concrete—medium structures (300mm thick)</td>
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<tr>
<td>545</td>
<td>Structural</td>
<td>Perform breaching of timber—medium structures (300mm thick)</td>
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<tr>
<td>546</td>
<td>Structural</td>
<td>Operate cutting equipment—medium (metal debris up to 10mm thick)</td>
<td>S</td>
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<tr>
<td>547</td>
<td>Structural</td>
<td>Lift, crib, roll and stabilize debris—medium structures (concrete blocks &gt;1,000kg)</td>
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<tr>
<td>548</td>
<td>Structural</td>
<td>Knowledge of technical search system operational advantages and disadvantages</td>
<td>K</td>
</tr>
<tr>
<td>549</td>
<td>Structural</td>
<td>Knowledge of canine search system operational advantages and disadvantages</td>
<td>K</td>
</tr>
<tr>
<td>550</td>
<td>Structural</td>
<td>Participate in mock urban search and rescue exercise involving rescue from persons from medium structures</td>
<td>S</td>
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<tr>
<td>551</td>
<td>General</td>
<td>Knowledge of field safety and security in international disaster response</td>
<td>K</td>
</tr>
<tr>
<td>552</td>
<td>Structural</td>
<td>Building debris weight estimation and calculations</td>
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### Pre-requisite Qualifications:
- ITRA USAR Level 2
- ITRA Rope Level 2
- ITRA Confined Space Level 2

<table>
<thead>
<tr>
<th>LO Ref</th>
<th>Subject</th>
<th>Learning Objective</th>
<th>K/S</th>
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<tbody>
<tr>
<td>553</td>
<td>Structural</td>
<td>Construct vertical shoring system for damaged heavy structures (FEMA Class 3: raker, laced post, sloped)</td>
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<tr>
<td>554</td>
<td>Structural</td>
<td>Construct horizontal shoring system for damaged heavy structures (FEMA Class 3)</td>
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<tr>
<td>555</td>
<td>Structural</td>
<td>Perform breaching of concrete—heavy structures (450mm thick)</td>
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<tr>
<td>556</td>
<td>Structural</td>
<td>Operate cutting equipment—heavy (metal debris up to 20mm thick)</td>
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<tr>
<td>557</td>
<td>Structural</td>
<td>Lift, crib, roll and stabilize debris— heavy structures (concrete blocks or other debris &gt;2,000kg)</td>
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<tr>
<td>558</td>
<td>Structural</td>
<td>Participate in mock urban search and rescue exercise involving rescue from persons from heavy structures</td>
<td>S</td>
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</table>
**Additional Designations** are learning objectives that can be taught by approved instructors to provide further flexibility with course design and delivery. They are not available to be assessed as they are not part of a formal ITRA qualification, but can be added to attendance-based courses to maximise customized learning. Instructors need an ITRA Instructor qualification in the subject area and provide additional evidence that they are competent to instruct the respective learning objective. ITRA Instructors can apply for additional designations at [https://itraforms.wufoo.com/forms/additional-designations/](https://itraforms.wufoo.com/forms/additional-designations/).

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<tr>
<th>ITRA Ref #</th>
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<tbody>
<tr>
<td>106</td>
<td>Generic</td>
<td>Basic safety around aircraft</td>
<td>K</td>
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<tr>
<td>174</td>
<td>Generic</td>
<td>Rescue communications (radio)</td>
<td>S</td>
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<td>215</td>
<td>Generic</td>
<td>Knowledge of DEFRA concept of flood operations</td>
<td>K</td>
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<tr>
<td>216</td>
<td>Generic</td>
<td>Knowledge of NFPA standards 1670 and 1006</td>
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<tr>
<td>217</td>
<td>Generic</td>
<td>Knowledge of NZQA unit standards for public safety</td>
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<td>218</td>
<td>Generic</td>
<td>Knowledge of Australian Public Safety training packages (PUA)</td>
<td>K</td>
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<tr>
<td>255</td>
<td>Generic</td>
<td>Introduction to SOPs, SOGs, and best practice guidelines</td>
<td>K</td>
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<tr>
<td>256</td>
<td>Generic</td>
<td>Technical rescue equipment inventory and maintenance systems</td>
<td>K</td>
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<tr>
<td>302</td>
<td>Rope</td>
<td>Rigging cross-haul</td>
<td>S</td>
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<tr>
<td>303</td>
<td>Rope</td>
<td>Rigging re-anchor</td>
<td>S</td>
</tr>
<tr>
<td>306</td>
<td>Rope</td>
<td>Negotiate deviation</td>
<td>S</td>
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<tr>
<td>307</td>
<td>Rope</td>
<td>Negotiate re-anchor</td>
<td>S</td>
</tr>
<tr>
<td>317</td>
<td>Generic</td>
<td>Tag Out/Lock Out Systems</td>
<td>K</td>
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<tr>
<td>318</td>
<td>Generic</td>
<td>Basic ladder operation</td>
<td>S</td>
</tr>
<tr>
<td>348</td>
<td>Generic</td>
<td>Single person: lift, drag and carries (casualty handling)</td>
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<tr>
<td>349</td>
<td>Generic</td>
<td>Team based: lift, drag and carries (casualty handling)</td>
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<tr>
<td>352</td>
<td>Generic</td>
<td>Improvised low height/disaster rescue—two point lower</td>
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<tr>
<td>353</td>
<td>Generic</td>
<td>Improvised low height/disaster rescue—four point lower</td>
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<tr>
<td>368</td>
<td>Rope</td>
<td>Advanced artificial high directional</td>
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<tr>
<td>370</td>
<td>Generic</td>
<td>Knowledge of distress beacons/EPIRBs/PLBs and satellite safety devices</td>
<td>K</td>
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<tr>
<td>385</td>
<td>Water</td>
<td>Perform curtain capture on tensioned diagonal</td>
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<td>452</td>
<td>Water</td>
<td>Perform tactical in-water restraint techniques for law enforcement</td>
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<td>487</td>
<td>Water</td>
<td>Perform hiking pack float</td>
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<td>488</td>
<td>Water</td>
<td>Perform self-rescue while wearing waders</td>
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<tr>
<td>490</td>
<td>Boat</td>
<td>Perform transfer of victim or equipment between boats</td>
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<tr>
<td>491</td>
<td>Water</td>
<td>Perform kayak assist rescues (Hook Rescue, T Rescue, Assisted Ferry, Barrel Roll)</td>
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<tr>
<td>492</td>
<td>Water</td>
<td>Perform bow/stern carry of swimming using kayak</td>
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<tr>
<td>493</td>
<td>Water</td>
<td>Perform self unassisted re-entry into kayak</td>
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<tr>
<td>494</td>
<td>Water</td>
<td>Perform kayak deep water rescue</td>
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<tr>
<td>495</td>
<td>Water</td>
<td>Perform rescue of unconscious paddler from kayak</td>
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<tr>
<td>496</td>
<td>Water</td>
<td>Perform tow based rescues and assists while kayaking</td>
<td>S</td>
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<tr>
<td>497</td>
<td>Water</td>
<td>Perform curl capsize recovery of canoe</td>
<td>S</td>
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<tr>
<td>498</td>
<td>Water</td>
<td>Perform canoe-over-canoe (X-method) capsize recovery of canoe</td>
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<tr>
<td>499</td>
<td>Water</td>
<td>Perform tow based rescues and assists while canoeing</td>
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<tr>
<td>500</td>
<td>Generic</td>
<td>Improvised (non-mechanical) rappelling and ascending</td>
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<tr>
<td>502</td>
<td>Rope</td>
<td>Perform invert while rappelling</td>
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<tr>
<td>509</td>
<td>Rope</td>
<td>Rig and operate micro descenders and bail out kits using thin rope systems</td>
<td>S</td>
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<tr>
<td>518</td>
<td>Body Recov.</td>
<td>Rig and manage body recovery bag systems for high angle evacuation</td>
<td>S</td>
</tr>
</tbody>
</table>