

## Job Safety Analysis (JSA) Form

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| Picture of task/Equipment  | Task:                 | Transporting, Handling, Servicing, Launching ROV and Water Safety   |
|--|-----------------------|---|
|  | Analyzed by:          |   |
|  | Date:                 |   |
| <b>Required Personal and Protective Equipment:</b>   |                       |   |
| <ul style="list-style-type: none"> <li>• A college/company member (Never work alone)</li> <li>• Life jacket (If situation requires it)</li> <li>• Close toed non-slip shoes</li> <li>• Sun protection equipment (If outdoors)</li> <li>• Tear resistant non-conductive gloves</li> </ul> |                       |   |
| <b>Required/Recommended Trainings:</b>   |                       |   |
| <ul style="list-style-type: none"> <li>• Practice launching/recovering ROV from pool</li> <li>• Refer to "Little Mermaid Safety/Operation Checklist"</li> <li>• Practice transporting/handling/servicing ROV</li> </ul>  |                       |   |
| Task   | Hazards               | Preventive Measures   |
| Transportation/Handling  | Slips / Trips / Falls | <ul style="list-style-type: none"> <li>• Wear close toed non-slip footwear and inspect path to transportation device</li> <li>• Transport ROV, tether and PSU disconnected and separately</li> </ul>  |
|  | Physical strain       | <ul style="list-style-type: none"> <li>• Bring a team member to assist carrying ROV</li> <li>• Use rolling transportation table</li> </ul>  |
| Servicing ROV/Pre-Launch   | Damage to limbs       | <ul style="list-style-type: none"> <li>• Wear tear resistant gloves and tear and tight fit clothing + close toed shoes</li> <li>• Keep fingers away from thrusters at all times</li> </ul>  |
|  | Electrocution         | <ul style="list-style-type: none"> <li>• Ensure ROV AND tether is disconnected from PSU AND ROV respectively</li> <li>• Ensure all tools are correctly guarded and all electrical appliances are properly protected by residual current devices</li> <li>• Wear non-electrically conducting gloves</li> </ul> |
|  | Back-/Leg strain      | <ul style="list-style-type: none"> <li>• Perform service on elevated surfaces 1,5m from the ground</li> </ul>   |
| Launching and recovering ROV   | Back strain           | <ul style="list-style-type: none"> <li>• Bring a team member to assist launch/recovery of ROV</li> <li>• Kneel down</li> <li>• Stay low and close to pool edge</li> </ul>   |
|  | Drowning              | <ul style="list-style-type: none"> <li>• Never launch/recover alone. Ensure all company members can swim or wear lifejackets</li> </ul>   |
|  | Damage to limbs       | <ul style="list-style-type: none"> <li>• Wear tear resistant gloves and tear and tight fit clothing + close toed non slip shoes</li> <li>• Keep fingers away from thrusters at all times</li> </ul>   |
|  | Slip / Trip / Falls   | <ul style="list-style-type: none"> <li>• Keep launch/recovery site clear and tidy</li> </ul>  |