National Association of Amusement Ride Safety Officials
690 Atlantis Rd, Suite 4, Melbourne, FL 32904
Phone: (813)661-2779
info@naarso.com

40TH ANNUAL SAFETY SEMINAR

Aquatic Operations Track

Attendees using this track of classes are interested in the Aquatic Operational side of Waterpark or Water Features. Instruction in these sessions is offered at both the basic and advanced levels. Individuals interested in taking either the Operations Level I or Level II exams as well as those wishing to sit for the Aquatic Operations exam will use classes from this track to meet the Exam Checklist requirement. After registering for the seminar, you will use the Secondary link on the confirmation email to select your classes.

Both the Operations and Aquatic Operations Certification Exams will be offered on Thursday afternoon, January 28th. If you are taking an exam, please visit our website, www.naarso.com, click on the Certification tab, scroll over to the Exam Checklists to find the application and any required class information along with any additional paperwork requirement. Registration for the seminar DOES NOT complete the paperwork necessary to sit for any exams.

*Class Titles with an * after it are previously approved QSI classes for students.*

Aquatic Operations Track

Mitigating Hazards in Aquatic Facilities	Aquatic facilities present a wide range of hazards that can develop from equipment, electrical and mechanical systems, walking and working surfaces, environmental conditions, maintenance activities, guest use and changing operations. This session examines a practical process for identifying hazards, evaluating exposure and potential consequences, selecting appropriate controls, and documenting corrective action. Participants will consider how routine inspections, preventive maintenance, employee observations and follow-up can be used together to reduce risk before an incident occurs.
Pumps and Motors: Understanding, Operating and Troubleshooting Aquatic Systems	This session builds practical understanding of pumps and motors used in aquatic systems. Participants will review operating principles, pump and system performance, common maintenance needs, warning signs, and basic troubleshooting considerations to help recognize issues before they result in equipment failure or operational downtime.
Fiberglass Maintenance & Repair (2 hours) *	Learn the essential techniques for inspecting, maintaining, and repairing fiberglass surfaces to ensure the longevity and safety of waterslides. From identifying common issues to hands-on repair methods, this course will review the techniques necessary to maintain the safety of your waterslides.
Water Quality Basics	This introductory session provides a practical overview of water quality and why it matters to the entire aquatic operation. Participants will examine how source water, circulation, filtration, bather load, temperature, pH, alkalinity, sanitizer levels, and other operating conditions influence water balance and sanitization. The session connects water quality to mechanical system performance, equipment life, corrosion and scale control, water clarity, swimmer comfort, guest experience, and overall facility safety. Participants will also review the fundamentals of routine testing,

National Association of Amusement Ride Safety Officials
690 Atlantis Rd, Suite 4, Melbourne, FL 32904
Phone: (813)661-2779
info@naarso.com

	interpreting results, making balanced adjustments, and recognizing when changing conditions require operational follow-up.
Non-Destructive Testing for Water Parks	This course will explore the vital role of non-destructive testing (NDT) in ensuring the safety and longevity of waterpark structures and equipment in this specialized course. The course will allow for maintenance professionals to develop a comprehensive understanding of NDT methods applicable to waterpark environments.
Attraction Inspection with Drones	Drone technology can support Remote Visual Inspection (RVI) and broader Non-Destructive Testing (NDT) programs for attractions and aquatic facilities, ranging from automated daily observations to monthly, quarterly, and annual inspections. Depending on the facility and inspection needs, solutions can include permanently installed drone docking systems for repeatable automated inspections, as well as pilot-operated missions using predefined and automated flight plans. This session explores how high-resolution drone imagery, combined with 2D and 3D modeling, can provide RVI data from hard-to-reach areas, allowing inspection teams to identify and annotate areas of concern, compare conditions over time, and build a historical visual record. Participants will also explore how repeatable aerial RVI data can complement established hands-on inspection and NDT practices rather than replace them
Aquatic Safety Surfaces Repair and Maintenance	Aquatic facilities experience some of the harshest environments within themed entertainment. Minerals, chemicals, UV, sunscreen, rust, leaves, dirt, food waste and other elements create significant challenges when it comes to keeping amenities looking and performing their best. In this session, participants will learn how different aquatic safety surfaces perform in real life, with specific guidance provided on caring for modular tile systems
Mechanical & Pump Room Inspections *	The Mechanical and Pump Room Inspection course is designed to provide individuals who are responsible for creating, reviewing, overseeing or completing facility, equipment, and operational components of an Aquatic Facility/Aquatic Feature inspection. The participants will learn about ways to increase awareness of pump room equipment and operations, safety for staff and customers, identify items to inspect, create better data gathering, and analyze equipment operations and efficiencies as part of an internal inspection program, while documenting the inspection.
Winterization and Preventative Maintenance	A strong seasonal shutdown protects equipment, controls repair costs, and supports a smoother reopening. This session takes a systems-based approach to aquatic facility winterization and preventive maintenance. Participants will examine pre-shutdown inspections; water, mechanical and chemical systems; freeze protection; pumps, motors and filters; attractions, basins and decks; safety equipment and access; documentation; and reopening readiness. The session emphasizes planning the shutdown as a cycle—inspect, clean, isolate, protect, verify, repair, document and prepare to reopen—rather than treating winterization as a single closing-day task.
Manuals Matter	Manuals are the backbone of your operation. In this session, we break down the essential components of an effective manual, including logical structure, clear language, proper formatting, and version control.
Maintaining Steel Structures & Components in Aquatic Environments	This course will start with by exploring the manufacturing process of steel to best understand how to maintain it. Both corrosion and rust on steel structures and the environments and conditions in which cause this to occur will be discussed. Maintenance techniques and preventative strategies for operators to slow and prevent rust will be reviewed.

National Association of Amusement Ride Safety Officials
690 Atlantis Rd, Suite 4, Melbourne, FL 32904
Phone: (813)661-2779
info@naarso.com

Your Emergency EAP	An Emergency Action Plan is effective only when it reflects the facility, its people and the emergencies that can reasonably occur. This session examines how to review an aquatic EAP for clear roles, activation criteria, communication, movement and accountability, emergency services coordination, equipment, documentation and practice.
Digital Inspection in Waterparks *	Designed for waterpark leaders, this session provides a foundational understanding of operational and safety inspections within aquatic environments. Participants will learn why inspections are critical, where inspection criteria originate, and how to design effective, well-structured checklists. Through collaborative exercises, attendees will develop practical inspection strategies across key operational areas, including guest safety, employee preparedness, ride maintenance, and facility readiness. The session also highlights the benefits of adopting digital inspection tools to improve safety, efficiency, and compliance.
Waterslide & Feature Inspections (2 hours) *	The Waterslide and Feature Inspection session is designed to provide individuals who are responsible for creating, reviewing, overseeing or completing facility, equipment, and operational components of an Aquatic Facility/Aquatic Feature inspection, with the foundational skills needed for creating/reviewing/conducting an internal inspection program, and documenting the inspection.
Virtual Inspection Exercise - /Mobaro app/ 3D drone module	This interactive inspection exercise uses digital and 3D tools to place participants in a virtual facility-inspection environment. Participants will practice observing conditions, identifying potential findings, documenting observations, and considering how technology can support consistent inspection training and verification.
Fiberglass Repair Workshop	This hands-on workshop moves from identifying fiberglass damage to understanding practical repair techniques. Participants will review surface preparation, repair materials and tools, application considerations, finishing, and inspection of completed repairs while connecting repair practices to an overall preventive-maintenance program.
Pump Repair	This practical session focuses on common pump problems and repair considerations in aquatic facilities. Participants will review symptoms, inspection points, component wear, seals and related parts, disassembly and repair considerations, and the decision points for repair, replacement or specialized service
Drones in Inspections Activity and Flying Exercise by Drone Over the Top	This session gives participants an opportunity to connect drone-based Remote Visual Inspection (RVI) concepts with an actual flight and inspection workflow. Participants will work through an inspection objective and see how pilot-operated and repeatable flights are flown with the use of high-quality imagery of difficult-to-access areas. The exercise will demonstrate how captured RVI imagery can be used for inspection documentation, annotation, 2D and 3D modeling, condition comparison, and historical tracking. Participants will also examine the limitations of visual data, recognize observations that may require additional hands-on inspection or other NDT methods, and consider how drone-generated information can be incorporated into a broader facility inspection and maintenance program.
Netting for Aquatic Facilities *	Learn best practices for selecting, installing, and maintaining netting at your aquatic facility.
Risk Management	This course includes information on the process of identifying, evaluating, and mitigating risks within a facility with a focus on operational risks relating to Guest and Employee safety.
Introduction to ASTM/Water Standards	This course provides a foundational understanding of ASTM International standards, their development process, and how to apply them—particularly in the water

National Association of Amusement Ride Safety Officials
690 Atlantis Rd, Suite 4, Melbourne, FL 32904
Phone: (813)661-2779
info@naarso.com

	industry—equipping participants with the skills to select, interpret, and use ASTM water-related standards effectively.
Air Quality for Indoor Aquatic Facilities	Indoor aquatic air quality is influenced by water chemistry, ventilation, air movement, facility operation and bather load. This session provides a broad look at common indoor-air-quality challenges, how operational and mechanical conditions interact, and the information facility leaders should monitor when investigating comfort, corrosion or air-quality concerns.
It's Not the Lifeguard's Fault	When a recognition or response incident occurs, the lifeguard is only one part of a larger operational system. This session examines how facility design, zone coverage, visibility, environmental conditions, communication, staffing, training, supervision and human factors can influence performance. Participants will explore a more complete approach to investigating incidents and identifying meaningful corrective actions.
Tackling the Most Common Maintenance Issues in Aquatic Facilities	Recurring maintenance problems can create downtime, added cost and avoidable safety concerns. This session examines frequently encountered aquatic-facility maintenance issues and practical strategies for recognizing root causes, prioritizing corrective work, documenting recurring problems, and using preventive maintenance to reduce repeat failures.
Inclement Weather Plans for Aquatic Facilities	Severe weather at an aquatic facility is not one emergency and is not simply a decision about whether to close the pool. This session focuses on practical, facility-specific Emergency Action Plans for lightning, wind, tornadoes, flooding, extreme heat, air-quality conditions, power loss, and related structural or electrical impacts. Participants will consider indoor and outdoor operations, normal programming and special events, shelter and access, securing water areas, and the decisions required to safely reopen.
Electrical Hazard Mitigation for Pools/Waterparks *	Gain comprehensive knowledge about identifying, assessing, and mitigating electrical hazards associated with wet environments. The course covers essential topics such as grounding and bonding systems, electrical safety codes, proper installation and maintenance of electrical components, and the dangers of water and electricity interaction. Through practical training, real-world scenarios, and regulatory guidelines, participants will learn how to prevent electrical accidents, safeguard guests and staff, and ensure compliance with local and national electrical safety standards (including NFPA 70 and NEC). The course emphasizes proactive hazard identification, emergency response planning, and regular safety inspections.
Enhancing Swimmer Safety Using AI, Video Analytics, & Human Interaction	As aquatic facilities increasingly adopt advanced technologies to improve guest safety, artificial intelligence (AI) and video analytics are emerging as powerful tools in drowning prevention. This session examines how systems like the Ellis Aquatic Vigilance System (EAVS™) use real-time camera monitoring and behavior recognition software to enhance patron surveillance and support human oversight. Participants will explore available video and analytic tools, understand their strengths and limitations, and review real-world data demonstrating how technology is transforming safety practices and training within aquatic environments.
What Drowning Really Looks Like	This session takes an in-depth look at what drowning truly looks like—challenging long-held assumptions about swimmer distress behaviors. Leveraging real footage captured through technologies such as the Ellis Aquatic Vigilance System (EAVS™), participants will explore how subtle, often-overlooked behaviors signal the onset of drowning and how these differ from traditional training simulations. The session highlights the importance of focused, purposeful, and deliberate scanning and demonstrates how integrating real-world video analysis into lifeguard training can enhance recognition skills, improve response times, and ultimately save lives.

National Association of Amusement Ride Safety Officials
690 Atlantis Rd, Suite 4, Melbourne, FL 32904
Phone: (813)661-2779
info@naarso.com

Insurance & Claims 101	This session introduces the fundamentals of insurance and claims handling. Participants will learn key terminology, explore basic insurance principles, understand the claims process, and review best practices for incident response and investigation.