



## 34<sup>th</sup> ANNUAL SAFETY SEMINAR REGISTRATION INFORMATION

*Due to Covid-19, NAARSO will be offering limited classes and allowing both in person and virtual attendance. There is minimal duplication of classes, ensuring important classes needed for Certification Examinations are held.*

*Class changes will not be allowed once registration form is submitted. NAARSO reserves the right to make changes based upon occupancy.*

### **BEFORE YOU REGISTER:**

- Review the class descriptions in this document and decide which program you wish to take.
- Head to our website and register for the seminar. Your seat is not reserved until payment is received.
- Virtual Seminar Attendees – do not select their classes at this time. You will receive an email at a later date containing an attendance sheet, access information and rules governing the virtual classes.
- In Person Seminar Attendees – selecting the Operations Program will be assigned all operations classes and do not need to make a class selection. Those selecting either Inspector Program will receive an emailed registration form they will use to make their class selections.

In Person Seminar COVID-19 regulations will be strictly enforced. Regulatory guidelines will be sent to attendees closer to the seminar. For current information visit: <https://floridahealthcovid19.gov/>

## **PRIMARY INSPECTOR CLASSES**

*Attendees choosing the Primary Inspector Program will attend the classes listed in this section on Monday and Tuesday. Thursday classes must be chosen by the attendees and can be found under Secondary Inspector Classes section.*

### **Monday, January 25, 2021**

#### **INTRO TO INSPECTION PROCESSES**

This course is designed to familiarize attendees with different aspects of the inspection processes they will encounter at the Safety Forum. Information such as vocabulary/acronyms used, safety regulatory bodies such as ASTM, and other general knowledge items Inspectors use on a daily basis.

#### **OSHA**

Attendees will be viewing a short presentation indicating the importance of Lock Out/Tag Out with follow-up discussion on the OSHA requirements in this area.

#### **BASIC MATH REVIEW**

This class will cover math processes that may be found on a certification exam.

#### **HYDRAULIC/PNEUMATICS**

This class includes a basic overview of pneumatic systems and components. How to read and understand schematic diagrams and interpret drawings, along with what to look for during an inspection.

#### **FASTENERS**

Course is designed to educate attendees on manufacturing schematics of fasteners.

#### **WIRE ROPE INSPECTIONS**

This session will discuss the proper application of wire rope and the various inspection techniques. We will also evaluate different types of rope damage.

### **Tuesday, January 26, 2021**

#### **BASIC INSPECTION TECHNIQUES**

This presentation will look at a variety of rides that can be seen in parks and midways today. Class participation is highly encouraged, and personal observation of problem areas will be discussed. Subcategories are: Welding/NDT, Corrosion, Inspection Tools and Required Signage. (4 hours)

#### **BASIC GENERATORS**

This class is an introductory course on generators for new inspectors. This class will provide an overview of proper grounding and bonding techniques and the inspection process of generators and electrical distribution systems on fairground or midway.

## BASIC ELECTRIC

This class will go over basic electric information providing attendees with proper techniques along with following the NEC guidelines.

## ASTM BASIC

Students are given an understanding of this internationally accepted standard from its origins to how the standards are developed and where to obtain the information for the amusement ride industry.

## LEGAL/PENCIL WHIPPING

Presenting yourself properly in the legal realm can be difficult, this class will provide some simple tips and lessons on how to represent yourself and avoid pitfalls and mistakes. It will also briefly discuss the potential ramifications along with the responsibility and ethics involved in properly filling out an inspection checklist.

## **SECONDARY INSPECTOR CLASSES**

*Attendees choosing the Secondary Inspector Program must select classes for each hour on Monday, Tuesday & Thursday. Class descriptions below are broken up by scheduling day.*

### **Monday, January 25, 2021**

#### ABCs of OSHA - BASICS OF COMPLIANCE

OSHA compliance issues can cause headaches to any business owner. This class will go over some of the basic compliance issues an individual may encounter

#### WELDING 360

During this class instruction will include multiple industry related Welding topics including processes, documentation including Welder Qualification Records, procedure specifications, terms, & forms. (2 hours)

#### CHANGES IN ASTM STANDARDS

Will discuss the standards as they relate to Maintenance, Training, Operations, & NDT.

#### WOODEN COASTERS

Discussion will center on basic inspection techniques for the various styles of wooden coasters in the industry today.

#### INSPECTING GENERATORS - CARNIVAL DISTRIBUTION

Electrical shock is certainly something to avoid. This class will provide information on proper grounding and bonding techniques. The class will also include the inspection process of generators and electrical distribution systems on fairground or midway. (2 hours)

#### FLUMES & RAFT RIDES

This class will discuss inspection points on flumes, rafts, & wave pools. As well as an overview of water quality issues as well as codes and law changes pertaining to wave pools.

## GO KART TRACK INSPECTION

An overview of the proper techniques in inspecting a Go Kart Track along with safe Operational procedures for both Employees & Patrons.

## INSPECTION TOOLS

Examples of typical tools that would be useful during the inspection process and a discussion on how to properly use, maintain, & calibrate them.

## OSHA PROPER USE OF PPE

Instruction will include the OSHA guidelines on the proper use of an employee's personal protection equipment.

## RIDE INFORMATION & BULLETIN REVIEW

A review of how to utilize the internet to obtain Ride information and Bulletins that have been released by Manufacturers.

## OSHA PROPER USE OF PPE

Instruction will include the OSHA guidelines on the proper use of an employee's personal protection equipment.

## STEEL COASTERS

Information will be provided on how best to perform an inspection on steel coaster tracks and vehicles. Ensuing discussion will help you determine where to begin, what are potential problems, and what to do if a defect is discovered.

## RECOGNIZING & AVOIDING ETHICAL TRAPS/PREPARING FOR A DEPOSITION

This course will help you prepare for a legal deposition and avoid pitfalls in ethical areas

## DEATH BY PENCIL WHIPPING

This class will discuss the potential causes of "pencil whipping" the potential ramifications along with the responsibility and ethics involved in properly filling out an inspection checklist.

## ZAMPERLA RIDES

Ride representatives will discuss bulletins and issues related to their rides.

**Tuesday, January 26, 2021**

## MINIATURE TRAINS

This class will discuss several different train accidents and the lessons learned from those accidents. It will also cover general and ride specific inspection points which should be considered when inspecting a track train

## RIGGING INSPECTIONS

A class on how to develop and implement a proper rigging program and identifying the commonly used hardware, equipment, applications and inspection techniques.

## HOW TO INSPECT/AUDIT RIDES TO ASTM STANDARDS

This class will go over auditing/inspection requirements for amusement rides and devices and all referenced ASTM F24 Standards.

## DARK RIDES & WALK THROUGH INSPECTIONS

This instructional time will discuss a myriad of safety issues common to dark rides, walk through fun houses and glass houses.

## NFPA 70 AND "ME"

This class will look at not only Section 525 of the NEC, but also at the NFPA 70 and Electrical safety in the workplace.

## ELECTRICAL & CONTROL SYSTEM TROUBLESHOOTING

Knowing how the electrical and control systems work together is important. This class will look at these two components and how to troubleshoot before something happens.

## UNDERSTANDING WELD & NDT CERTIFICATIONS

This class will offer an explanation of the certification requirements for ASNT, Welding, & Non-Destructive Testing levels.

## BRAKING SYSTEMS

This class will cover air supplied spring open, hybrid air/spring applied and spring open, spring applied, air open, and magnetic brakes. It explains how they work, as well as special cautions, advantages, and disadvantages to this type of brake.

## HOW INSPECTORS GET INTO TROUBLE AND WHAT TO DO ABOUT IT?

Inspectors are accountable to many individuals: your employer, the police, the courts, prosecutors, politicians, the media, the public, state regulators, and your family. Using role-playing and real-world examples, we will discuss perennial problems, such as what is safe, acceptable risk, the scope or purpose of an inspection, reasonable care, personal judgment, competence, and conflicts of interest. We will add to your repertoire for staying out of trouble, including engagement letters and checklists.

## NON-DESTRUCTIVE TESTING

This class will discuss the various types of Non-Destructive Testing available including X-ray, Ultrasound, Magnetic Particle, and Dye Penetrate. You will also discuss which types are better suited to the component to be tested.

## WIRE ROPE INSPECTIONS

This session will discuss the proper application of wire rope and the various inspection techniques. We will also evaluate different types of rope damage.

## UNDERSTANDING ACCELEROMETER DATA

Instruction will include how to read and understand the data provided on an accelerometer results printout.

## DEVELOPING AN INSPECTION PROGRAM

How to develop a good ride inspection program that complies with the ASTM Standards.

## FEC FACILITY INSPECTIONS

This course will instruct on where to start and what to look for when inspecting Family Entertainment Centers.

## BEST PRACTICES FOR INCIDENT RESPONSE AND INVESTIGATION

Familiarize yourself with techniques and tactics useful to investigate an incident. Discover what information or documents you should gather, and how to do it effectively. Learn who you should tell about the incident and whether you have to preserve the accident scene. Discuss what things you should avoid during and after a crisis. Improve your proficiency handling real-world issues and become more informed on significant developments in dealing with incident investigations.

## OSHA – HAZARD COMMUNICATIONS

This class will help students try to develop a program for communications when hazardous conditions hit their area.

**Thursday, January 28, 2021**

## DEVELOPING A MAINTENANCE PROGRAM

Instruction on how to Develop a maintenance training program that complies with the ASTM Standards.

## COMPONENTS/INSPECTION POINTS PERMANENT RIDES

This class will cover an advanced look at components and inspection points for amusement rides and devices located within permanent facilities.

## MATH: HOW IT'S STILL RELEVANT

This class discusses formulas and conversions giving a basic math review to attendees.

## BATTECH/DARTRON

A discussion with a Company representative about this manufacturer's products. (2 hours)

## WATER SLIDES & FEATURE INSPECTIONS

Inspection points and techniques for auditing aquatic equipment such as slides, spray grounds, and interactive play structures will be reviewed. This session includes virtual inspection.

## MIDWAY INSPECTIONS: GOOD & BAD

This course is designed to help instructors look at everything on the midway, so issues are not missed, and proper techniques are used.

## AERIAL ADVENTURE INSPECTION

Key engineering issues with catenaries & structural wire rope limits, braking requirements, speed & wind verifications, participant requirements, staff inspections and maintenance challenges, equipment, and trees as part of structures & standards. (2 hours)

## COMPONENTS/INSPECTION POINTS MOBILE RIDES

This class will cover an advanced look at components and inspection points for amusement rides and devices traveling with carnival units.

## PASSENGER RESTRAINTS

The focus for this class will be the proper use, care and type of various Passenger restraint systems.

## RESPONDING TO EMERGENCIES - EMERGENCY ACTION PLAN FOR TRAVELING SHOWS & SMALLER FACILITIES

This class will address how to prepare a written Emergency Action Plan for Traveling Shows or Smaller Facilities, how to prepare before something happens.

## WHEELS, WHEELS AND WHEELS

Discussion on the large variety of wheels and wheel types available for use on amusement rides and devices. You will also discuss why certain types of wheels might be better fitted to some applications more than others.

## RESPONDING TO EMERGENCIES – EMERGENCY ACTION PLAN FOR PARKS

Focus will be developing an Emergency Action Plan for permanent parks, how to prepare before something happens.

## WHY THINGS FAIL

This class dives into the importance of proper Operations, Maintenance and Inspection. Will discuss how the three are interrelated and the importance of planning as well.

## ROCK WALLS & EURO BUNGIES

Course is designed to give a brief overview of industry changes and updates pertaining to mobile amusement devices.

## INSPECTOR COMMUNICATIONS

Dealing with inspectors both independent and regulatory can be like speaking a different language. This class will discuss what inspectors look for during their surveys and how to keep a line of communication open.

## MAINTENANCE & OPERATIONS: WORKING TOGETHER

This class will discuss the relationship between Operations & Maintenance departments including how to improve or repair negative feelings.

## VISUAL WELD INSPECTIONS

Attendees will be shown different ways to document and perform a proper weld inspection along with showing common discontinuities found on amusement rides or devices.

## FOAM PADDING

An industry representative will discuss standards for Foam Padding on amusement rides and devices.

## INFLATABLES & TRACKLESS TRAINS

Course is designed to give a brief overview of industry changes and updates pertaining to mobile amusement devices.

## CORROSION ANALYSIS

What is corrosion? What is rust? Do you know the difference? This class will include the various techniques utilized in the inspection process.

## ANSI B77 UPDATES

Will go over updates and changes for ANSI B77 as they relate to Aerial Tramways.

## FASTENERS

Course is designed to educate attendees on manufacturing schematics of fasteners.

## **OPERATIONS CLASSES**

*The 2021 Operations Program provides a combination of both Level I & II classes. Attendees who register for the Operations Program will attend all scheduled Operation classes listed below.*

## RIDE TRAINING

This class will explain the proper way to develop and implement a ride training program. (2 hours)

## ACCESSIBILITY 101

This class will explore basics of assisting guests with disabilities. We will explore basic access to attractions as well as hospitality "must haves" to offer the best service to all guests. (2 hours)

## COVID-19 – ADAPTING TO NEW NORMS

This course will review the best practices for operating amid the ongoing COVID-19 pandemic. Using CDC guidelines, IAAPA reopening guidance, and regional amusement association guidelines, this course will review the industry accepted practices for keeping patrons and employees safe. This course will examine reopening procedures successes and failures, then will look forward to new emerging technologies to reassure the public that the amusement industry will continue to keep safety as a top priority.

## WEATHER

This course reviews the importance of weather planning and key things to consider.

## STANDARD OPERATING PROCEDURE WRITING

This class will focus on creating attraction manuals, standard operating procedures & other important operational documentation.



## OPERATIONAL AUDITS

This class will look at the many ways a facility can audit its operation training program, and employee engagement. It will also discuss the importance of continuous auditing and reevaluation of your operation.

## ASTM Basics

This foundational course will provide the set up for success as students identify the industry recognized standards regarding operations.

## RIDE EVACUATION SCENARIO

Participants will look deeper at the mechanics of ride evacuation. Highlights of the program will include guest interaction, employee safety & communications, and the process between maintenance & the operations team. (2 hours)

## DEVELOPING EFFECTIVE TRAINING PROGRAMS

Explore ways to adapt your on-boarding & training programs to fit the current & future work force.

## OPERATIONAL CASE STUDIES

The class will be presented with operational case studies. Teams will be selected & will discuss \* explore the various aspects to each case study. The class will conclude with each team presenting their recommendations & findings. Case studies will include sides from guests, employees, facility operations & unusual situations.

## BLOOD BOURNE PATHOGENS (BBP)

Learn what steps should be taken to mitigate the risk of contamination from Blood Bourne Pathogens.

## DEVELOPING YOUR TEAM THROUGH ONGOING TRAINING

This class will focus on ways to develop your teams through in-services and additional opportunities for continued learning.

## OPERATIONAL DOCUMENTATION

Students will learn what needs to be documented to keep your operations safe.

## INCIDENT INVESTIGATION

Learn how to gather information & properly document events to better prepare for legal, guest, and employee issues.

## ANALYZING INCIDENTS

Most investigations stop when encountering human error, so 80% of investigations conclude with human error, providing little guidance for prevention. In this session, students will learn tips that will improve initial investigations, using tools including error types, causal factor classifications, and the "five rules" of causal statements. The workshop portion will use several examples of incidents and involve students in actively collecting and organizing information for better records and analysis. (2 hours)

## PREVENTIVE MAINTENANCE

Class is designed to discuss ways to improve and identify maintenance areas on attractions.

## GUEST BEHAVIOR

Teach how to help your staff identify problems riders, train your staff to handle such occurrences & explore how to market your facility to stay safe.

## SAFETY CRITICAL

A deeper look into safety critical components that focus around the operator's role.

## LEADERSHIP DEVELOPMENT

The primary focus of this class is the development of leadership skills. It provides a basic understanding of leadership principles and group dynamics.

## HUMAN FACTORS

Like other components, human components must fit successfully into a system. This session will provide an overview of human factors, and ways that human variability and the quality of fit can affect system performance. Focusing particularly on cognitive processing and active behaviors in externally paced activities like amusement rides and attractions, and human users of a wide range of ages and capacities, this session will look at strategies to anticipate, monitor, and benefit system performance through design and selection of equipment and processes.

## **ELECTIVE CLASSES**

**Friday, January 29, 2021**

### INTENSE STUDY REVIEW

This class will provide an intense review of topics that individuals may find on a certification exam including but not limited to math equations, electrical, hydraulic, and pneumatic topics, welding, non-destructive testing, and other important matters. (4 hours)

### INSPECTING & MAINTAINING OUT OF PRODUCTION RIDES

Discussion on how to find information on inspecting and maintaining older rides where there is no longer a manufacturer in business to provide that information. (2 hours)

### DEATH BY PENCIL WHIPPING

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### CHANGES IN ASTM STANDARDS

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## INSPECTION TOOLS

Examples of typical tools that would be useful during the inspection process and a discussion on how to properly use, maintain, & calibrate them.

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