



The Industry Leader in Inspection Education  
Invites you to attend the

## 25<sup>th</sup> ANNUAL RIDE SAFETY INSPECTION FORUM

Sponsored by:



**Registration begins:**

Sunday, January 29, 2012

**Classes run from:**

Sunday, January 29 through Friday, February 3, 2012

**Certification Exams will be offered:**

Friday, February 3, 2012

**Costs:**

2012 NAARSO Member - \$425.00      Non-Member - \$475.00  
Certification Level I & Level II Exam Fees: \$55 with 2012 Membership

**Location:**

Sands Ocean Resort  
9550 Shore Drive  
Myrtle Beach, SC 29572  
(800)599-9872, Mention **NAARSO**

Room rates: \$48 Single-Double

Breakfast coupons are \$8 per person/per day and available at time of reservation

**ANNUAL MEMBER MEETING – Sands Ocean Resort, Sunday, January 29, 2012 at 1:30 p.m.**

# 25<sup>h</sup> ANNUAL SAFETY FORUM CURRICULUM SCHEDULE

## SUNDAY, JANUARY 29, 2012

9:00 A.M. – 5:30 P.M.  
1:30 P.M. – 2:30 P.M.  
4:00 P.M. – 5:30 P.M.  
6:00 P.M. – 7:00 P.M.  
(SANDS OCEAN RESORT)

REGISTRATION  
ANNUAL MEMBERSHIP MEETING  
ORIENTATION & INCIDENT INVESTIGATION  
RECEPTION

## MONDAY, JANUARY 30, 2012

8:00 A.M. – 5:50 P.M.  
(SANDS OCEAN RESORT)

PRIMARY & SECONDARY CURRICULUM,  
INSPECTIONS TECHNIQUES, ELECTRIC, HYDRAULICS,  
COMPONENTS, ASTM, MAGNETIC BRAKING, EMERGENCY  
EVACUATION SYSTEMS, SAFETY RESTRAINTS, PNEUMATICS

## TUESDAY, JANUARY 31, 2012

8:00 A.M. – 5:50 P.M.  
(SANDS OCEAN RESORT)

7:00 P.M. – 9:30 P.M.

PRIMARY & SECONDARY CURRICULUM,  
INSPECTIONS TECHNIQUES, ELECTRIC, HYDRAULICS,  
COMPONENTS, ASTM, MAGNETIC BRAKING, EMERGENCY  
EVACUATION SYSTEMS, SAFETY RESTRAINTS, PNEUMATICS  
AIMS CERTIFICATION EXAMS

## WEDNESDAY, FEBRUARY 1, 2012

8:00 A.M. – 4:30 P.M.  
5:00 P.M. - 6:30 P.M.

HANDS-ON ACTIVITY – FAMILY KINGDOM PARK  
SPECIAL ACTIVITY AT SKYWHEEL MYRTLE BEACH

## THURSDAY, FEBRUARY 2, 2012

8:00 A.M. – 5:15 P.M.  
(SANDS OCEAN RESORT)  
6:00 P.M. – 10:00 P.M.

ELECTIVE CLASSES (SEE REGISTRATION PAGE  
FOR OPTIONS & SIGN UP)  
RECEPTION & BANQUET

## FRIDAY, FEBRUARY 3, 2012

8:00 A.M. – 12:00 P.M.  
(SANDS OCEAN RESORT)

LEGAL, INTENSE STUDY REVIEW, OPERATIONS  
TEST ORIENTATION (1:00 – 1:30)  
TEST 1:30 P.M. – 3:30 P.M.



*In conjunction with the 25<sup>th</sup> Annual Safety Forum, NAARSO is please to extend the following additional training and certification*

## LIMITED SPECIALTY TRAINING & CERTIFICATION

For those individuals involved in the Rental side of the Amusement Industry we offer the Limited Specialty class. This training will cover Inflatable Devices, Rock Walls, Euro Bungees/Bungee Jumps, and Trackless Trains. Classes take place on Saturday and Sunday, January 28 and 29, 2012, at the Sands Ocean Resort located in Myrtle Beach, SC. It will include instruction in the areas of Inspection Procedures, Safe Operating Procedures, ASTM Standards, Fasteners, Wire Rope, Electrical Codes and Recommended Documentation Practices.

Registration will begin at 8:00 a.m. on Saturday, January 28 with instruction beginning at 9:00 a.m. The Limited Specialty certification exam will take place on Sunday at 10:30 a.m. ending around 12:00 p.m. The course fee is over and above the 25<sup>th</sup> Annual Forum and is \$100. The Limited Specialty certification test fee is \$55 for those individuals who have a 2012 NAARSO membership, \$160 for if you do not wish to become a member of NAARSO. If you have any questions regarding this class, contact the NAARSO office, 813-661-2779.

## TRAIN THE TRAINER

Training is more than creating Power Point presentations and printing hand-outs. This 8 hour course will provide you with tips and information on how to create training programs that are geared toward your audience and help them learn the material. We will also briefly look at the upcoming industry standards that address training and certification programs. The class will be held on Saturday January 28, 2012, and will run from 8:30 a.m. to 5:30 p.m. The course fee is \$100 and includes an 8 hour Continuing Education certificate.

### REGISTRATION INFORMATION

I will take the: Limited Specialty Class \_\_\_\_\_ Train the Trainer Class \_\_\_\_\_

NAME: \_\_\_\_\_

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

PHONE NUMBER \_\_\_\_\_

PAYMENT METHOD \_\_\_\_\_ CHECK \_\_\_\_\_ CREDIT CARD \_\_\_\_\_ TYPE

CARD NUMBER \_\_\_\_\_

EXPIRATION DATE \_\_\_\_\_ SECURITY CODE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

BILLING ADDRESS  
(IF DIFFERENT FROM ABOVE) \_\_\_\_\_

## MONDAY & TUESDAY CLASSES

The classes for Monday and Tuesday are broken up into two (2) groups; Primary and Secondary. Your path for these two days is determined by your previous training experience and/or years in the industry.

### Primary Curriculum:

Covers basic inspection points and techniques as well as basic electric, hydraulics, and other related subjects. This curriculum is recommended for those who:

1. Have never attended a NAARSO or other certified safety seminar or,
2. Feel they can benefit from an intense two (2) day course on inspection techniques, hydraulics, electrics, and other related subjects or,
3. Are taking the Level I exam.

### Secondary Curriculum:

Consists of elective one (1) hour classes covering different topics that include inspection of specific types of devices, codes and standards, employee safety, and other topics not related to basic ride inspections. This curriculum is recommended for those who:

1. Have a good understanding of inspection techniques, hydraulics, electrics or,
2. Have attended a NAARSO or other certified safety seminar in the past or,
3. Currently hold a Level I certification.

If you feel that you will be taking the Secondary Curriculum, below please find your class options. The class schedule for Monday will be repeated on Tuesday, so you will need to choose a class each hour for the two (2) days.

**8:00 – 9:00 (1<sup>st</sup> Hour)**

1. Emergency Evacuation Systems
2. Changes in the ASTM F-24 Standards (Includes F893-10 Auditing of Amusement Rides)
3. New Employee Documentation, Investigations, Training
4. Grounding and Bonding

**9:05 – 10:05 (2<sup>nd</sup> Hour)**

1. Safety Restraints
2. Changes in Codes & Standards (other than ASTM & NEC)
3. Water Quality
4. Forensic Assessment of Inspection & Maintenance Documents

10:05 – 10:20 Break

**10:20 – 11:20 (3<sup>rd</sup> Hour)**

1. Components/Inspection Points (1<sup>st</sup> hour of 2 hour class)
2. Dealing with the Media
3. Comprehensive Ride Evaluation
4. Electrical and Control System Troubleshooting

**11:25 – 12:25 (4<sup>th</sup> Hour)**

1. Components/Inspection Points (2<sup>nd</sup> hour of 2 hour class)
2. Review of Changes in NEC 525
3. Blood Bourne Pathogens
4. Linear Induction Systems

12:25 – 1:25 Lunch

**1:25 – 2:25 (5<sup>th</sup> Hour)**

1. Pneumatics/Pressure Vessels
2. Braking Systems
3. Simulator Inspection & Maintenance
4. Inspection of Euro Bungees & Similar Devices

**2:30 – 3:30 (6<sup>th</sup> Hour)**

1. Ropes Courses
2. Lubrication – The right lube for the job
3. OSHA – Developing an Employee Safety Program
4. E Stop Challenge

3:30 – 3:45 Break

**3:45 – 4:45 (7<sup>th</sup> Hour)**

1. Hydraulic System Maintenance & Oil Sampling
2. Flumes/Rafts/Wave Pools (1<sup>st</sup> hour of 2 hour class)
3. Inspector Communications
4. Arc Flash Safety

**4:50 – 5:50 (8<sup>th</sup> Hour)**

1. Inspecting Generators and Carnival Distribution Systems
2. Flumes/Rafts/Wave Pools (2<sup>nd</sup> hour of 2 hour class)
3. Dynamic Ride Testing
4. Bullet-Proof Incident Investigations

For Safety Forum Registration, please complete the form and send to:

NATIONAL ASSOCIATION OF AMUSEMENT RIDE SAFETY OFFICIALS

PO Box 638
Brandon, Florida 33509-0638
(813)661-2779/(800)669-9053 FAX (813)685-5117

Name \_\_\_\_\_ Social Security No. XXX-XX-\_\_\_\_ (last 4 Digits only)

Government Agency/Company \_\_\_\_\_ Title \_\_\_\_\_

Address(mailing) \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone: (\_\_\_\_) \_\_\_\_\_ Email Address: \_\_\_\_\_

Table with 3 columns: Registration type, Price, and Notes. Includes 'REGISTRATION LIMITED' and 'PLEASE REGISTER EARLY!'.

CREDIT CARD INFORMATION: \_\_\_ VISA \_\_\_ MASTERCARD \_\_\_ AMERICAN EXPRESS

NUMBER: \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_

AUTHORIZATION SIGNATURE: \_\_\_\_\_

Monday/Tuesday Curriculum Selections

I will be taking the Primary Curriculum. \_\_\_\_\_
(Do not complete below choices.)

I will be taking the Secondary Curriculum. \_\_\_\_\_
(Provide class selection numbers from page 4)

Table with 3 columns: Hour, Monday, Tuesday. Rows 1-8.

Elective Choices (Thursday) Everyone

Please provide class option letters (page 6)

Table with 4 columns: Class, First Choice, Second Choice. Rows 1st-7th.

Hotel Information

Sands Ocean Resort
800-599-9872 (mention NAARSO)

**CLASS SELECTION FOR THURSDAY, FEBRUARY 2, 2012**  
**CLASS SIZE IS LIMITED**

CLASS TIME

1<sup>ST</sup> CLASS  
 8:00 A.M. – 9:00 A.M.

CLASS OPTIONS

- (A) STEEL COASTERS
- (B) MEETING THE NEW INSPECTION CHALLENGES
- (C) FEC FACILITY INSPECTIONS
- (D) WELDING INSPECTIONS
- (E) AERIAL TRAMWAYS (1<sup>ST</sup> HR OF 2 HR SESSION)
- (F) DARTRON

2<sup>ND</sup> CLASS  
 9:10 A.M. – 10:10 A.M.

- (A) OSHA/PERSONAL SAFETY-FALL ARREST (1<sup>ST</sup> HR OF 2 HR SESSION)
- (B) WOODEN COASTERS
- (C) DEVELOPING AN INSPECTION PROGRAM
- (D) WELDING INSPECTIONS
- (E) AERIAL TRAMWAYS (2<sup>ND</sup> HR OF 2 HR SESSION)
- (F) DARTRON

10:10 A.M. – 10:30 A.M.

**BREAK**

3<sup>RD</sup> CLASS  
 10:30 A.M. – 11:30 A.M.

- (A) OSHA/PERSONAL SAFETY-FALL ARREST (2<sup>ND</sup> HR OF 2 HR SESSION)
- (B) CORROSION ANALYSIS
- (C) MINIATURE TRAINS
- (D) FASTENERS
- (E) CLIMBING WALLS
- (F) ZIP LINE INSPECTIONS

4<sup>TH</sup> CLASS  
 11:40 A.M. – 12:40 P.M.

- (A) RIGGING INSPECTIONS
- (B) CORROSION ANALYSIS
- (C) BEARINGS
- (D) GENERAL MIDWAY SAFETY
- (E) OSHA/PERSONAL SAFETY-LOCK OUT/TAG OUT PROGRAM
- (F) ELI BRIDGE (1<sup>ST</sup> HR OF 2 HR SESSION)

12:40 P.M. – 1:40 P.M.

**LUNCH**

5<sup>TH</sup> CLASS  
 1:40 P.M. – 2:40 P.M.

- (A) NON DESTRUCTIVE TESTING
- (B) RIDE INFORMATION & BULLETIN REVIEW
- (C) DEVELOPING A MAINTENANCE PROGRAM
- (D) FOAM PADDING
- (E) INSPECTION TOOLS PROPER USE, MAINTENANCE, & CALIBRATION
- (F) ELI BRIDGE (2<sup>ND</sup> HR OF 2 HR SESSION)

6<sup>TH</sup> CLASS  
 2:50 P.M. – 3:50 P.M.

- (A) NON DESTRUCTIVE TESTING
- (B) ASTM STANDARDS
- (C) RECOGNIZING & AVOIDING ETHICAL TRAPS FOR INSPECTORS
- (D) DARK RIDES AND WALK THROUGH INSPECTIONS
- (E) WATER PARK INSPECTIONS (1<sup>ST</sup> HR OF 2 HR SESSION)
- (F) KMG/VISA

3:50 P.M. – 4:10 P.M.

**BREAK**

7<sup>TH</sup> CLASS  
 4:10 p.m. – 5:10 p.m.

- (A) UNDERSTANDING WELDING & NDT CERTIFICATIONS
- (B) KNOW YOUR WHEELS
- (C) CHAINS
- (D) WIRE ROPE INSPECTIONS
- (E) WATER PARK INSPECTIONS (2<sup>ND</sup> HR OF 2 HR SESSION)
- (F) UNUSUAL SITUATION & DISASTER PLANNING

## ELECTIVE CLASS DESCRIPTIONS

**ASTM STANDARDS** – WILL DISCUSS THE STANDARDS AS THEY RELATE TO MAINTENANCE, TRAINING, OPERATIONS, & NDT.

**AERIAL TRAMWAYS** – A TWO (2) HOUR CLASS WITH DISCUSSION OF B77 INSPECTION STANDARDS PERTAINING TO VARIOUS TYPES OF AERIAL TRAMWAYS WITH FIXED GRIP AND REMOVEABLE GRIPS AND INCLUDES VARIOUS WIRE ROPE DEFECTS, DAMAGE, AND MAINTENANCE.

**BEARINGS** – DISCUSSION ABOUT THE APPLICATION AND INSPECTION OF DIFFERENT TYPES OF BEARINGS USED IN THE AMUSEMENT INDUSTRY.

**CHAINS** – A REVIEW OF ISSUES WHICH ARISE WITH THE USE & CARE OF DIFFERENT TYPES OF CHAINS.

**CLIMBING WALLS** – THIS HANDS-ON CLASS WILL COVER THE DIFFERENT TYPES OF CLIMBING WALLS, INSPECTION TECHNIQUES, AND VARIOUS MANUFACTURERS' REQUIREMENTS.

**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.

**DARK RIDES & WALK THROUGH INSPECTIONS** – THIS INSTRUCTIONAL TIME WILL DISCUSS A MYRIAD OF SAFETY ISSUES COMMON TO DARK RIDES, WALK THROUGH FUN HOUSES, GLASS HOUSES.

**DARTRON** - DISCUSSIONS WITH COMPANY REPRESENTATIVES ABOUT THEIR MANUFACTURED PRODUCTS.

**DEVELOPING AN INSPECTION PROGRAM** – HOW TO DEVELOP A GOOD RIDE INSPECTION PROGRAM THAT COMPLIES WITH THE ASTM STANDARDS.

**DEVELOPING A MAINTENANCE TRAINING PROGRAM** – INSTRUCTION ON HOW TO DEVELOP A MAINTENANCE TRAINING PROGRAM THAT COMPLIES WITH THE ASTM STANDARDS.

**ELI BRIDGE** - A DISCUSSION WITH A COMPANY REPRESENTATIVE ABOUT THIS MANUFACTURER'S PRODUCTS. THIS IS A TWO (2) HOUR COURSE

**FEC FACILITY INSPECTIONS** – A ONE HOUR CLASS ON INSPECTION CRITERIA OF FAMILY ENTERTAINMENT FACILITIES.

**FASTENERS** – LEARN ABOUT THE DIFFERENT TYPES AND STYLES OF FASTENERS ALONG WITH GRADE AND TORQUE VALUES.

**FOAM PADDING** – AN INDUSTRY REPRESENTATIVE WILL DISCUSS STANDARDS FOR FOAM PADDING ON AMUSEMENT RIDES AND DEVICES.

**GENERAL MIDWAY SAFETY** – DISCUSSION ON HOW TO REDUCE THE POTENTIAL FOR SLIPS, TRIPS, AND FALLS ON A MIDWAY ALONG WITH KEEPING THE PUBLIC OUT OF HAZARDOUS AREAS.

**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.

**KMG/VISA** - DISCUSSIONS WITH COMPANY REPRESENTATIVES ABOUT THEIR MANUFACTURED PRODUCTS.

**KNOW YOUR 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.

**MEETING THE NEW INSPECTION CHALLENGES** – A DISCUSSION OF PENDING CHANGES TO ASTM STANDARDS CONCERNING THE INSPECTION/AUDITING OF AMUSEMENT RIDES & TRAINING OF INSPECTORS, OPERATORS, & MAINTENANCE PERSONNEL.

**MINIATURE TRAINS** – THIS CLASS WILL DISCUSS SEVERAL DIFFERENT TRAIN ACCIDENTS AND THE LESSONS LEARNED FROM THOSE ACCIDENTS. IT WILL ALSO COVER GENERAL & RIDE SPECIFIC INSPECTION POINTS WHICH SHOULD BE CONSIDERED WHEN INSPECTING A TRACK TRAIN.

**NON DESTRUCTIVE TESTING** – THIS CLASS WILL DISCUSS THE VARIOUS TYPES OF NON DESTRUCTIVE TESTING AVAILABLE INCLUDING X-RAY, ULTRASOUND, MAG. PARTICLE, AND DYE PENETRANTS. YOU WILL ALSO DISCUSS WHICH TYPES ARE BETTER SUITED TO THE COMPONENT TO BE TESTED.

**OSHA/PERSONAL SAFETY FALL ARREST** – DISCUSSION ON HOW OSHA REQUIREMENTS AFFECT AMUSEMENT INSPECTION PERSONNEL ALONG WITH DISCUSSIONS ON THE PROPER USE OF FALL ARREST GEAR. THIS IS A TWO (2) HOUR CLASS

**OSHA/PERSONAL SAFETY LOCK OUT/TAG OUT PROGRAM** – HOW TO DEVELOP A LOCK OUT/TAG OUT PROGRAM TO PROTECT INSPECTORS AND EMPLOYEES FROM UNEXPECTED EQUIPMENT START UPS & OTHER HAZARDS.

**RECOGNIZING & AVOIDING ETHICAL TRAPS FOR INSPECTORS** – USING ROLE PLAYING, YOU WILL EXPLORE SOME OF THE IMPLICATIONS OF ETHICAL RESPONSIBILITIES PLACED ON INSPECTORS AS WELL AS HOW THOSE PROVISIONS APPLY TO RECOGNIZED INDUSTRY PRACTICE & PREVAILING LAW.

**RIDE INFORMATION & BULLETIN REVIEW** – A REVIEW OF HOW TO UTILIZE THE INTERNET TO OBTAIN RIDE INFORMATION AND BULLETINS THAT HAVE BEEN RELEASED BY MANUFACTURERS.

**RIGGING INSPECTIONS** – A NEW CLASS ON HOW TO DEVELOP AND IMPLEMENT A PROPER RIGGING PROGRAM AND IDENTIFYING THE COMMONLY USED HARDWARE, EQUIPMENT, APPLICATIONS, & INSPECTION PROCEDURES.

**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.

**UNDERSTANDING WELDING & NDT CERTIFICATIONS** – THIS CLASS WILL OFFER AN EXPLANATION OF THE CERTIFICATION REQUIREMENTS FOR ASNT, WELDING, & NON DESTRUCTIVE TESTING LEVELS.

**UNUSUAL SITUATION & DISASTER PLANNING** – HOW TO BE PREPARED FOR SITUATIONS SUCH AS SUDDEN BAD WEATHER, POWER OUTAGES, ETC.

**WATER PARK INSPECTIONS** – THIS CLASS WILL FOLLOW THE PROCEDURES AND INSPECTIONS FOR WATER PARKS FROM TOP TO BOTTOM INCLUDING PROBLEM AREAS AND THE BEST APPROACH TO DOING MEANINGFUL INSPECTION OF THE GROUNDS, STRUCTURES, AND WATER IN THE PARKS WITH AN EYE TOWARD ELIMINATING POTENTIAL RISK TO PATRONS. THIS IS A TWO (2) HOUR CLASS.

**WELDING INSPECTIONS** – DURING THIS CLASS DISCUSSION YOU WILL LEARN THE DIFFERENT TYPES OF WELDS YOU ARE LIKELY TO ENCOUNTER IN THE INDUSTRY AND HOW TO RECOGNIZE THE VARIOUS DISCONTINUITIES AND DEFECTS.

**WIRE ROPE INSPECTION** – THIS SESSION WILL DISCUSS THE PROPER APPLICATION OF WIRE ROPE AND THE VARIOUS INSPECTION TECHNIQUES. WE WILL ALSO EVALUATE DIFFERENT TYPES OF ROPE DAMAGE.

**WOODEN COASTERS** – DISCUSSION WILL CENTER ON BASIC INSPECTION TECHNIQUES FOR THE VARIOUS STYLES OF WOODEN COASTERS IN THE INDUSTRY TODAY.

**ZIP LINE INSPECTIONS** – A ONE HOUR CLASS ON PROPER INSPECTION PROCEDURES OF ZIP LINES.