



# NAARSO CERTIFICATION PROGRAM

## Revised October 2020

### **CERTIFICATION PROGRAM RULES**

Issuance of a certification signifies that the holder has met certain requirements as set forth in the National Association of Amusement Ride Safety Officials (NAARSO) rules. The Inspection certification only recognizes that the individual possesses a certain level of knowledge required to perform an amusement ride inspection. The Limited Specialty certification only recognizes that the individual possesses a certain level of knowledge to perform inspections on devices such as inflatables and other specialty amusement devices. The Operations certification only recognizes that the individual possesses a certain level of knowledge in the area of amusement ride operations. Any certificate does not certify any action performed by an individual(s) holding any NAARSO certification. NAARSO neither employs nor supervises the certificate holder(s). Proper performance of the duties assigned to a certificate holder is the responsibility of the certificate holder and the employer.

### **CERTIFICATION BOARD**

There shall be a Certification Board ("the Board") to create, supervise, and administer an Amusement Ride and Device Certification Accreditation Program. The Board shall consist of not less than nine (9) voting members of NAARSO who may shall be appointed by the President and approved by the Board of Directors. The current President shall appoint associate non-voting members of the board for the purpose of administering the examination. The current Executive Director and Administrative Assistant(s) of NAARSO shall be included as additional non-voting members of the Board. The current President shall appoint a Certification Chair, who shall appoint a Certification Vice Chair. Both the Chair and Vice Chair serve at the discretion of the President and Board of Directors. The current President shall serve as an Ex-Officio member of the Board. In addition, the Certification Chair can appoint at least two members at large to the Board.

- A. The Board shall maintain a uniform procedure for administering the examination(s)
- B. The examination (s) shall be conducted at least once per year unless the Board of Directors determines otherwise.
- C. The members of the Board shall serve without compensation, except as stated below, but may be reimbursed for expenses incurred in attending meetings or in performance of their duties as a member of the Board.
- D. The Board shall meet either in person, electronically or by telephone conference call. The frequency shall be at the discretion of the Chair of the Certification Board.
  1. Examination Administration Fees: At a location where only the examination has been requested and where proctors will be brought in to administer the examination: NAARSO may charge a minimum fee of \$2,500.00 (Two Thousand Five Hundred US Dollars) in addition to any applicable test or membership fees. The requesting entity shall provide in writing the date, time, location and approximate number of exam applicants at least thirty (30) days in advance of the examination date.
  2. At locations with NAARSO approved training, there may be a daily fee charged for proctors for the day of the examination and for travel expenses to and from the examination location. This will be in addition to any test or membership fees.

Examination, certification and renewal fees shall be in accordance with the current NAARSO fee schedule as determined by the Board of Directors and published on the NAARSO website.



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The Board shall meet no less than twice each year, once during the annual NAARSO Safety Forum and once at a time to be announced by the Board Chair with at least sixty (60) days' notice. The secondary meeting may be held in person or via electronic meeting recesses. A quorum for conducting Board business shall consist of two-thirds (2/3) of the voting members. Members of the Board who miss two (2) consecutive Board meetings without prior approval of the Chair and the NAARSO President shall be removed from the Active Board roster.

### **LIMITED SPECIALTY CERTIFICATION**

#### **REQUIREMENTS FOR CERTIFICATION AND CERTIFICATION RENEWALS FOR INSPECTOR OF AMUSEMENT RIDES AND DEVICES LIMITED SPECIALTY**

##### **LIMITED SPECIALTY CERTIFICATION**

Applicants for Limited Specialty certification shall satisfy the requirements of this section. In order to take this NAARSO Certification Examination, the applicant shall meet the following qualifications:

- A high school diploma, GED or the equivalent, plus one (1) year employment within the past three (3) years in the amusement ride inspection field and ten (10) hours of NAARSO approved training or,
- Three (3) years of employment within the past five (5) years in the amusement ride inspection field.
- Provide written verification from employer or qualified sponsor that all information provided on application is true and correct.
- Applicants must possess the ability to read, write, and comprehend the English language.
- All applicants must pass a written examination as referenced in the Certification Policy Handbook.
- Application shall show evidence of an eye exam within the previous twelve (12) months. Eye exam requirements shall be in accordance with the visual acuity provision within ASTM F2974.

##### **LIMITED SPECIALTY CERTIFICATION RENEWAL**

Limited Specialty Inspectors must obtain at least ten (10) hours of NAARSO approved formal training during their certification period of two (2) years to retain a Limited Specialty Inspector Certification. Examination may not be retaken to circumvent the training requirement within three (3) years of issuance of certification. Certification holder must be a NAARSO member in good standing.

Any or all of the criteria for recertification may be waived, postponed, or suspended by the Board upon written request for consideration by a certificate holder.

A one-year administrative grace period is allowed. During this time, certifications will be considered expired. Renewals submitted before the administrative one-year grace period ends shall be accepted for renewal if all requirements are fulfilled. Circumstances such as: hospitalization, military service, and natural disaster may be considered for an extended period.



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### **INSPECTOR CERTIFICATION**

#### **REQUIREMENTS FOR CERTIFICATION AND CERTIFICATION RENEWALS FOR INSPECTION OF AMUSEMENT RIDES AND DEVICES**

##### **LEVEL I (BASIC) INSPECTOR CERTIFICATION**

Applicants for Level I (Basic) certification shall satisfy the requirements of this Section. In order to take the NAARSO Inspector Certification Examination, the applicant shall meet the following criteria:

- A high school diploma, GED, or the equivalent, plus one (1) year of full-time employment within the past three (3) years in the amusement ride inspection field and 16 hours of NAARSO approved training or,
- Two (2) years of employment within the past three (3) years in the amusement ride inspection field.
- Provide written verification from employer or qualified sponsor that all information provided on application is true and correct.
- Applicants must possess the ability to read, write, and comprehend the English language.
- All applicants must pass a written examination as referenced in the Certification Policy Handbook.
- Application shall show evidence of an eye exam within the previous twelve (12) months. Eye exam requirements shall be in accordance with ASTM F2974 visually acuity.

##### **LEVEL I (BASIC) INSPECTOR CERTIFICATION RENEWAL**

All Level I (Basic) inspectors must obtain at least 3.2 continuing education units (CEUs) or 32 hours of NAARSO approved formal training during their certification period of two (2) years to retain a Level I (Basic) Inspector Certification.

Examinations may not be retaken to circumvent the training requirements within three (3) years of the issuance of a certification.

A one-year administrative grace period from certification expiration is allowed. However, during this time certifications will be considered expired. Renewals submitted before the administrative one-year grace period ends shall be accepted for renewal if all requirements are fulfilled. Circumstances such as: hospitalization, military service, and natural disaster may be considered for an extended period.

##### **LEVEL II (ADVANCED) INSPECTOR CERTIFICATION**

Applicants for Level II (Advanced) Inspector certification shall satisfy the requirements of this section. This level is obtained through a combination of testing and experience.



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In order to take the NAARSO Inspector Certification Examination the applicant shall meet the following criteria:

- Applicants must possess a current NAARSO Level I Inspector Certification (Basic)
- Applicants must possess verifiable documentation of five (5) years of employment primarily in the amusement ride inspection field. This shall be approved by the Certification Board.
- Applicants must possess the ability to read, write and comprehend the English language.
- All applicants must pass a written examination which covers advanced topics in areas such as, but not limited to: welding, electrical, hydraulics, pneumatics, or non- destructive testing of amusement rides and devices.
- All applicants must provide proof of successful completion of at least 3.2 continuing education units (CEUs) or 32 hours of NAARSO approved formal training within the past twenty-four (24) months prior to applying to take the examination.
- Application shall show evidence of an eye exam within the previous twelve (12) months. Eye exam requirements shall be in accordance with ASTM F2974 visually acuity.

### **LEVEL II (ADVANCED) INSPECTOR CERTIFICATION RENEWAL**

All Level II (Advanced) inspectors must obtain 3.2 continuing education units (CEUs) or 32 hours of NAARSO approved formal training during their certification period two (2) years to retain the Level II (Advanced) Inspector Certification.

Examinations may not be retaken to circumvent the training requirements within three (3) years of the issuance of a certification.

A one-year administrative grace period from certification expiration is allowed. However, during this time a certification will be considered expired. Renewals submitted before the administrative one-year grace period ends shall be accepted for renewal if all requirements are fulfilled. Circumstances such as: hospitalization, military service, and natural disaster may be considered for an extended period.

### **LEVEL III (SENIOR) INSPECTOR CERTIFICATION**

All Level III (Senior) Inspector Certification holders are required to demonstrate a commitment to the amusement industry, diverse knowledge of codes and standards, as well as a high level of self-initiative.

Level III (Senior) Inspector Certificate holders shall support NAARSO to the extent of their collective knowledge and use their energy and substance in the areas of training and instruction to advance the NAARSO philosophy of "Safety Through Communication." Each Level III inspector shall instruct a pre-approved program at a NAARSO approved training conference once every two years or equivalent.

Applicants for Level III (Senior) Inspector certification shall satisfy the requirements of this section.



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The Senior level is obtained through a combination of experience, testing and training beyond the Level II (Advanced) Inspector Certification. All of the following requirements shall be met:

- Must possess a current NAARSO Level II (Advanced) Inspector certification for at least 2 years.
- Must be a current NAARSO member in good standing.
- Shall have verifiable documentation of ten (10) years of experience in the amusement ride inspection field.
- Must have worked in the amusement ride and device inspection field a minimum of three (3) years out of the past five (5) years primarily employed in the amusement ride field. The Certification Board shall determine this.
- Shall be currently employed in the amusement ride field.
- Shall possess a high level of knowledge, education, and experience related to the amusement ride and device industry.
- Have a minimum of eighty (80) hours of accredited amusement ride safety training within the past four (4) years with verifiable documentation of NAARSO approved training.
- If an applicant has not previously instructed at a NAARSO approved school, or served as an officer or committee member within the NAARSO organization, applicants must submit an original idea with outline for a one (1) hour industry related safety training class and be reviewed/approved by the Board.
- Applicants must have two (2) current Level III Inspector certification holders review the application and supporting documentation and sign as sponsors for the applicant prior to presenting the packet to the Board for consideration.
- Application shall show evidence of an eye exam within the previous twelve (12) months. Eye exam requirements shall be in accordance with ASTM F2974 visually acuity.

All applicants must pass each of the following tests with a passing score of 80%:

Written Test: Multiple choice general knowledge test which covers advanced topics in areas such as, but not limited to: welding, electrical, hydraulics, pneumatics, math, inspection practices, and non-destructive testing of amusement rides and devices.

Open Book: Multiple choice and fill in the blank test covering current ASTM Standards (provided) and generic amusement ride operation/maintenance manual.

Oral Examination: An oral examination administered by three current NAARSO Level III Certification Board Members.

### **Level III INSPECTOR CERTIFICATION RENEWAL**

All Level III Inspector certificate holders must obtain at least 3.2 continuing education units (CEUs) or 32 hours of continuing education at a NAARSO Safety Forum, Outreach Training Session, or a NAARSO approved Safety Training Seminar during the certification period two (2) years to retain the Level III (Senior) Inspector Certification. Online modules will ***not*** be accepted for Level III renewals. All Level III Certificated Inspectors shall remain involved with the Amusement Industry.



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All Level III Inspector certificate holders must maintain their NAARSO membership without lapse to retain their certification.

All Level III Inspector certificate holders shall remain active in the amusement inspection industry.

A one-year administrative grace period from certification expiration is allowed. However, during this time certifications will be considered expired. Renewals submitted before the administrative one-year grace period ends shall be accepted for renewal if all requirements are fulfilled. Circumstances such as: hospitalization, military service, and natural disaster may be considered for an extended period.

Any Level III Inspector certification holder who cannot or does not wish to meet the requirements for Level III Inspector certification renewal, may submit a written request to the Certification and Examination Board to be reduced to a Level II Inspector Certification as long as all requirements are met for the criteria established herein for the Level II Inspector certification. A return to a Level III (Senior) Inspector Certification requires a full Level III (Senior) application process.

Level III (Senior) Inspector Certificate holders shall support NAARSO to the extent of their collective knowledge and use their energy and substance in the areas of training and instruction to advance the NAARSO philosophy of "Safety Through Communication."

### **OPERATIONS CERTIFICATION**

#### **REQUIREMENTS FOR CERTIFICATION AND CERTIFICATION RENEWALS FOR OPERATIONS OF AMUSEMENT RIDES AND DEVICES**

##### **OPERATIONS LEVEL I (BASIC)**

Applicants for Operations Level I (Basic) shall satisfy the requirements of this section.

In order to take the NAARSO Operations Certification Examination, the applicant shall meet the following qualifications:

- A high school diploma, GED, or the equivalent, plus one (1) year of full-time employment within the past three (3) years of employment and current employment in the operation of amusement rides and devices.
- All applicants must have completed 16 hours of NAARSO approved Operations courses within two (2) years prior to taking the exam.
- Provide written verification from employer or qualified sponsor that all information provided on application is true and correct.
- Applicants must possess the ability to read, write, and comprehend the English language.
- All applicants must pass a written examination as referenced in the Certification Policy Handbook.





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### **OPERATIONS LEVEL I (BASIC) RENEWAL**

All Level I (Basic) Operations certification holders must obtain 3.2 continuing education units (CEUs) or 32 hours of NAARSO approved formal training during their certification period two (2) years to retain an Operations Level I (Basic) Certification.

Examination may not be retaken to circumvent the training requirement within three (3) years of issuance of certification.

Any or all of the criteria for re-certification may be waived, postponed, or suspended by the Board upon written request for consideration by a certificate holder.

A one-year administrative grace period from certification expiration is allowed. However, during this time a certification will be considered expired. Renewals submitted before the administrative one-year grace period ends shall be accepted for renewal if all requirements are fulfilled. Circumstances such as: hospitalization, military service, and natural disaster may be considered for an extended period.

### **LEVELII (ADVANCED) OPERATIONS CERTIFICATION**

Applicants for Level II (Advanced) Operations Certification shall satisfy the requirements of this section. This level is obtained through a combination of testing and experience.

In order to take the NAARSO Operations Certification Examination, the applicant shall meet the following criteria:

- Applicants must possess a current NAARSO Level I (Basic) Operations Certification.
- Applicants must possess verifiable documentation of five (5) years of employment and current employment in the operation of amusement rides and devices.
- Applicants must possess the ability to read, write, and comprehend the English language.
- All applicants must pass a written examination.
- All applicants must provide proof of successful completion of at least 3.2 continuing education units (CEUs) or 32 hours of NAARSO approved formal training within the past twenty-four (24) months prior to applying to take the examination. At least 16 of these 32 hours must be NAARSO approved Advanced Operation Classes.

### **LEVELII (ADVANCED) OPERATIONS CERTIFICATION RENEWAL**

All Level II (Advanced) Operations certification holders must obtain 3.2 continuing education units (CEUs) or 32 hours of NAARSO approved formal training during their certification period two (2) years to retain the Level II (Advanced) Operations Certification.

Examination may not be retaken to circumvent the training requirement within three (3) years of issuance of certification.



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Any or all criteria for recertification may be waived, postponed, or suspended by the Board upon written request for consideration by a certificate holder.

A one-year administrative grace period from certification expiration is allowed. However, during this time a certification will be considered expired. Renewals submitted before the administrative one-year grace period ends shall be accepted for renewal if all requirements are fulfilled. Circumstances such as: hospitalization, military service, and natural disaster may be considered for an extended period.

### LEVEL III (SENIOR) OPERATIONS CERTIFICATION

All Level III (Senior) Operations Certification holders are required to demonstrate a commitment to the amusement industry, diverse knowledge of codes and standards, as well as a high level of self-initiative.

Level III (Senior) Operations Certificate holders shall support NAARSO to the extent of their collective knowledge and use their energy and substance in the areas of training and instruction to advance the NAARSO philosophy of "Safety Through Communication." Each Level III (Senior) Operator shall instruct a pre-approved program at a NAARSO approved training conference once every five years or assist with administrative duties on behalf of NAARSO Board of Directors.

Applicants for Level III (Senior) Operations certification shall satisfy the requirements of this section. Level III (Senior) certification is obtained through a combination of experience, testing and training beyond the Level II Operations Certification. All of the following requirements shall be met:

- Must possess a current NAARSO Level II Operations certification for at least 2 years.
- Must be a current NAARSO member in good standing.
- Shall have verifiable documentation of ten (10) years of experience in the area of attractions operations in an amusement facility.
- Must have worked in the area of attractions operations in an amusement facility for a minimum of three (3) years out of the past five (5) years of full-time employment.
- Shall be actively involved with the amusement industry.
- Shall possess a high level of knowledge, education, and experience related to the amusement ride and device industry.
- Have a minimum of eighty (80) hours of accredited amusement ride attractions and safety training within the past four (4) years with verifiable documentation from NAARSO approved training program(s).
- If an applicant has not previously instructed at a NAARSO approved school, or served as an officer or committee member within the NAARSO organization, applicants must submit an original idea with outline for a one (1) hour industry related attractions and safety training class and be reviewed/approved by the Board.
- Applicants must have two (2) current members of the Board of Directors review the application and supporting documentation and sign as sponsors for the applicant prior to presenting the packet to the Board for consideration.





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All applicants must pass each of the following tests with a passing score of 80%:

**Written Test:** Multiple choice general knowledge test which covers advanced topics in areas such as, but not limited to: ASTM F770, Human Factors, Risk Management, Product Development, Budgeting, Preventive Maintenance, Incident Analysis, Accessibility laws as they relate to Amusement Ride, Lock Out Tag Out, Blood Borne Pathogens, Personal Protective Equipment, Fire Safety, and Hazard Communication.

**Open Book:** Multiple choice and fill in the blank test covering current ASTM Standards (provided) and generic amusement ride operation/maintenance manual.

### **LEVEL III (SENIOR) OPERATIONS CERTIFICATION RENEWAL**

All Level III (Senior) Operations holders must obtain at least 3.2 continuing education units (CEUs) or 32 hours of continuing education at a NAARSO Safety Forum, Outreach Training Session, or a NAARSO approved Safety Training Seminar during the certification period two (2) years to retain the Level III (Senior) Operations Certification. Online modules will **not** be accepted for Level III (Senior) renewals.

All Level III (Senior) Operations holders must maintain their NAARSO membership without lapse to retain their certification.

All Level III (Senior) Operations holders shall remain active in the amusement industry.

A one-year administrative grace period from certification expiration is allowed. However, during this time certifications will be considered expired. Renewals submitted before the administrative one-year grace period ends shall be accepted for renewal if all requirements are fulfilled. Circumstances such as: hospitalization, military service, and natural disaster may be considered for an extended period.

Any Level III (Senior) Operations holder who cannot or does not wish to meet the requirements for Level III (Senior) Operations certification renewal may submit a written request to the Certification and Examination Board to be reduced to a Level II Operations as long as all requirements are met for the criteria established herein for the Level II Operations certificate. A return to a Level III (Senior) Operations Certification requires a full Level III (Senior) application process.

Level III (Senior) Operations certificate holders shall support NAARSO to the extent of their collective knowledge and use their energy and substance in the areas of training and instruction to advance the NAARSO philosophy of "Safety Through Communication."

### **CERTIFICATION FILE**

The NAARSO office on each examination applicant shall maintain a certification file. It will include, but not be limited to, the following:

1. Certification applications with required supporting documentation.
2. Examination answersheets
3. Proof of continuing education



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### **CERTIFICATION REVOCATION**

A holder of a certification may have their certification revoked for violating the program rules or the NAARSO Code of Professional Conduct.

Revocation of a certification may result in prohibition from participation in any aspect of the NAARSO Certification Program in the future.

### **AMUSEMENT RIDE INSPECTOR AND OPERATIONS CERTIFICATION EXAM ADMINISTRATIVE PROCEDURES & GENERAL INFORMATION**

#### **APPLICATION/REGISTRATION FOR EXAMINATION**

**Application:** An applicant must apply for the examination by completing the appropriate application provided by NAARSO, provide required documentation and pay the appropriate fee. The applicant will then receive an "Admittance Card" at the site of the examination.

**Admittance:** All applicants must present their "Admittance Card" and one additional photo ID card indicating applicants name to the Administrator at the exam site registration desk. A photo ID card may include state issued identification such as a driver's license or an employee identification card with a photo.

Should the applicant not provide all the required documentation or provide inaccurate or false documentation, the result of the examination will be voided.

#### **THE EXAMINATION ROOM**

It will be the responsibility of the examination proctors to prepare the room for the examination. In addition, examination proctors will be responsible for the security of the examination room during the entire examination period. At least two (2) members of the Board must be present at the examination location at all times during the entire examination period.

Properly registered applicants and proctors will be the only individuals permitted in the examination room during the examination period.

No books, manuals, tablets, briefcases, personal calculators, electronic devices, etc., will be permitted in the examination room. Any items brought into the examination such as coats, hats etc. shall be placed in the designated area by the proctors. You will be provided with pencils, calculators, and scratch paper. Cellular phones must be turned *off* and left outside the examination room or at the main table with a proctor.

Once an applicant has entered the examination room, the applicant will only be permitted to leave the room one (1) time during the examination period. The test booklet(s), answer sheets, calculator, and scratch paper must remain in the examination room. An applicant shall leave the examination room upon completion of the examination. The applicant must present their test booklet, answer sheets, calculator, and all scratch paper to the proctor in the examination room before leaving. All appropriate



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information must be provided on test booklet(s) and answer sheets. Failure to provide required information may result in failure of the examination.

Once an applicant has exited the examination room, the applicant will not be permitted to re-enter until the end of the examination period. At the end of the specified examination period, the proctors will collect the remaining test booklets, answer sheets, calculators, and scratch paper and clear the room.

### **EXAMINATION ROOM REGULATIONS**

No talking during the examination. Unless approved by the proctor(s) there is no smoking, eating, or drinking in the examination room. Applicants are to sit at designated seating only. Applicants must remain seated at all times. No wandering around the room. Accepted academic decorum is expected of all applicants at all times.

Failure of an applicant to follow any of the examination procedures/policies, or an applicant who conducts oneself in an inappropriate manner will be "excused from the examination, without completion." Any applicant so "excused" will fail the exam and forfeit all fees associated with the examination process and must reapply to begin the process anew.

### **POST EXAMINATION**

All completed examinations will be graded by the members of the Board or their designee. The results of the examination, the completed answer sheets, the application form, and any other necessary documentation will be maintained in the applicant's permanent file by NAARSO.

The applicant will be informed, in writing, of their success or failure of the examination. It will be the responsibility of each applicant to provide all additional information to NAARSO for completion of the applicant's certification file. Failure to provide required documentation may delay the receipt of examination results.

Unsuccessful applicants may not be retested for at least one hundred eighty (180) days from the date of the examination.

### **THE EXAMINATION ITSELF**

#### **LIMITED SPECIALTY CERTIFICATION**

The examination shall consist of seventy-five (75) questions on general knowledge, mathematics, sciences, general practices, basic ride knowledge, etc., which must be passed by a score of at least 75% correct.

**Subjects may include, but are not limited to questions relating to:**

- The ability to read and understand basic mathematical calculations
- Measurement conversions - US to Metric, etc.
- Electrical components and their function
- General mechanical comprehension



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- General science principles
- Basic tools and workshop knowledge Blocking Bracing Shoring Wire rope
- Fasteners - types, grades, proper use (U.S. & Metric) Seat Restraints
- Hydraulics/pneumatics
- Applicable safety codes and standards Accepted industry practices
- Electrical systems - U.S. & European Inspection practices/procedures
- Ride operations
- Signage

### LEVEL I (BASIC) INSPECTOR CERTIFICATION

The examination shall consist of one hundred fifty (150) questions which must be passed by a score of at least 75% correct. Applicants are given two hours (2) to complete the exam. The test is made up of questions based on general knowledge, mathematics, sciences, general practices, and additional questions which specifically apply to amusement rides. Any particular examination will consist of most or all of the question's categories.

#### General knowledge subjects may include, but are not limited to:

- Word knowledge
- The ability to read and understand basic mathematical calculations
- Measurement conversions (U.S. to metric)
- Electrical components and their function
- General mechanical comprehension
- General science principles
- Basic tools and workshop knowledge

#### Ride Inspection knowledge subjects may include, but are not limited to:

- Blocking/bracing Shoring
- Wire rope
- Fasteners - types, grades, proper use, U.S. & Metric, etc.
- Seat restraints
- Welding practices/procedures
- Non-destructive testing
- Hydraulics/pneumatics
- Applicable safety codes and standards
- Acceptable industry practices
- Electrical systems
- U.S. & International Inspection practices/procedures
- Ride operations Signage

### LEVEL II (ADVANCED) INSPECTOR CERTIFICATION

The examination shall consist of one hundred fifty (150) questions which must be passed by a score of at least 80% correct. Applicants are given two (2) hours to complete the exam. Many of the \_\_\_\_\_



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questions are in the same categories as stated in the Level I Inspector examination; but are considered more difficult by the Examination Board. Any particular examination will consist of most or all of the question categories.

### **The scope of questions which may be included:**

- Understanding Job Information – Inspectors have to read training material, ride manuals, ride bulletins, and information sheets all during their careers. It is very important for them to understand what they read.
- Some questions test the ability to read and understand job information.
- Recall of Details - Some questions test the ability to recall details of a technical paper or manuals.
- Judgment and Reasoning - Some questions test judgment in a situation that an inspector may face on the job.
- Understanding Mechanical Devices - Some questions test the ability to understand general mechanical devices. Other questions test knowledge of tools and equipment an inspector may be called upon to use.
- Dealing with Other People - Inspectors must deal with the public during inspections, during administrative functions, and during investigations. As public servants, or representatives of other businesses an inspector should treat people with courtesy and respect. Some questions present problem situations in which inspectors have to deal with other people.
- Basic mathematics and science - Some questions test understanding basic mathematics and general science, and the ability to apply them to the typical inspection situation.
- Ride operations and general ride safety - Some questions test an inspector's understanding of proper ride operational procedures and general ride safety practices.
- Foreign rides and metrics - Inspectors may be required to work with rides manufactured outside of the United States using metric measurements. Inspectors should understand the important differences between foreign and U.S. manufacturing practices and standards. The inspector should have a working ability to convert metric measurements to U.S. and vice-versa; conversion formulas are given.
- Codes and standards - Inspectors are required to have a working knowledge and understanding of various published safety codes and standards. The inspector need not memorize any code, but should know which code to apply in each individual circumstance.
- Specialized areas - Amusement rides can be very complex. An inspector should have a basic understanding of several specialized areas. The inspector does not need to be a fully trained specialist in any particular field, but should have a general working knowledge of procedures, practices, and terminologies of such diverse fields including:
  - Welding
  - Non-destructive testing
  - Fasteners
  - Mechanical systems
  - Wire rope
  - Blueprint symbols
  - Electrical, pneumatic, & hydraulic systems
  - Incident investigations



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### LEVEL III (SENIOR) INSPECTOR CERTIFICATION

This open-book, general knowledge, oral and written examination shall consist of one hundred (100) to two hundred (200) questions which must be passed by a score of at least 80% correct. Many of the questions are in the same categories as stated in the Level II Inspector examination; but are considered more difficult by the Board. Any particular examination will consist of most or all of the question categories.

#### The scope of questions which may be included:

- Understanding Job Information - Inspectors have to read training material, ride manuals, ride bulletins, and information sheets all during their careers. It is very important for them to understand what they read.
- Some questions test the ability to read and understand job information.
- Recall of Details - Some questions test the ability to recall details of a technical paper or manual that was just read.
- Judgment and Reasoning - Some questions test judgment in a situation that an inspector may face on the job.
- Understanding Mechanical Devices - Questions test the ability to understand general mechanical devices. Other questions will test knowledge of tools and equipment an inspector may be called upon to use.
- Dealing with Other People - Inspectors must deal with the public during inspections, during administrative functions, and during investigation. As public servants, or representatives of other businesses an inspector should treat people with courtesy and respect. Some questions present problem situations in which inspectors must deal with other people.
- Basic Mathematics and Science - Some questions test an inspector's understanding of basic mathematics and general science, and their ability to apply them to the typical inspection situation.
- Ride Operations and General Ride Safety - Some questions test an inspector's understanding of proper ride operational procedures and general ride safety practices.
- Foreign rides and metrics - Inspectors may be required to work with rides manufactured outside of the United States using metric measurements. Inspectors should understand the important differences between foreign and U.S. manufacturing practices and standards. The inspector should have a working ability to convert metric measurements to U.S. and vice-versa (given conversion formulas).
- Codes and Standards - Inspectors are required to have a working knowledge and understanding of various published safety codes and standards. The inspector does not need to memorize any code; but should know which code to apply in each individual circumstance.
- Specialized Areas - Amusement rides can be very complex; an inspector should have a basic understanding of several specialized areas. The inspector need not be a fully trained specialist in any particular field, but should have a general working knowledge of procedures, practices, and terminologies of such diverse fields including:
  - Welding
  - Non-destructive testing Fasteners Mechanical systems Wire rope
  - Blueprint symbols
  - Electrical, pneumatic, & hydraulic systems





# NAARSO CERTIFICATION PROGRAM

## Revised October 2020

- Incident investigations

### LEVEL I (BASIC) OPERATIONS CERTIFICATION

The examination shall consist of one hundred, fifty (150) questions which must be passed by a score of at least 75% correct. Applicants are given two (2) hours to complete the exam. The test is made up of questions based on general knowledge, general operational practices, and additional questions which specifically apply to the operation of amusement rides. Any particular examination will consist of most or all of the question's categories.

#### **General knowledge subjects may include, but not be limited to, questions relating to:**

- The ability to read and understand instructions
- Reasoning and real-life problem-solving
- ASTM F 770
- Documentation
- Signage
- Ride training- including checklists, inspections, guest assistance, communications, lock-out – tag-out, fire extinguishers, media, staff placement, correct use of equipment, ride restrictions, and special situations
- Evacuations
- Weather preparedness
- Blood borne pathogens
- Identifying at risk behavior
- Communications

### LEVEL II (ADVANCED) OPERATIONS CERTIFICATION

The examination shall consist of one hundred fifty (150) questions which must be passed by a score of at least 80% correct. Applicants are given two (2) hours to complete the exam. Many of the questions are in the same categories as stated in the Level I Operations examination; but are considered more difficult by the Board. Any particular examination will consist of most or all of the question categories.

#### **The scope of questions which may be included:**

- Understanding Job Information - Operators must read training material ride manuals, ride bulletins, and information sheets all during their careers. It is very important for them to understand what they read. Some questions will test the ability to read and understand job information.
- Recall of Details - Some questions test the ability to recall details of a technical paper or manual that was just read.
- Judgment and Reasoning - Some questions test judgment in a situation that an inspector may face on the job.
- Dealing with Other People - Operators must deal with the public while operating rides, during administrative functions, and during investigations. As public servants, or representatives of other businesses an operator should treat people with courtesy and respect. Some questions present problem situations in which operators must deal with other people.



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- Basic mathematics and science - Some questions test an operator's understanding of basic mathematics and general science, and the ability to apply them to the typical inspection/operations situation.
- Ride Operations and General Ride Safety - Some questions test an operator's understanding of proper ride operational procedures and general ride safety practices.
- Foreign Rides and Metrics - Operators may be required to work with rides manufactured outside of the United States using metric measurements. Operators should understand the important differences between foreign and U.S. manufacturing practices and standards. The operator should have a working ability to convert metric measurements to U.S. and vice-versa (given conversion formulas).
- Codes and Standards – Operators are usually required to have a working knowledge and understanding of various published safety codes and standards. The operator does not need to memorize any code but should know which code to apply in each individual circumstance.

### GENERAL EXAMINATION INFORMATION

Exam questions will be multiple choice with four (4) possible answers. Applicants will be asked to mark answers by darkening the circle corresponding with the answer number and letter on the answer sheet.

Names are not written on test sheets. Applicants will be asked to write the date, ID number, and test card number on the test booklet(s) and answer sheets.

The members of the Board who grade the exam will not know to whom answer sheets belong.

No questions will be asked regarding a specific amusement ride or manufacturer.