



# CHASSIS INSPECTOR'S CERTIFICATION EXAMINATION

## TEST INFORMATION BULLETIN

**Examination Dates:**

**[Any available date until December 31, 2022](#)**

***NOTE: You must completely register for the exam before the deadline to ensure you have enough time to schedule an examination date to take the test.***

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### IMPORTANT DATES

#### Registration and Payment Deadlines

<b>REGISTRATION FEE &amp; Deadline</b>
<b>\$375.00</b>
<b>29 December 2022</b>

#### INFORMATION BULLETIN TOPICS

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**KEEP THIS BULLETIN.** Carefully read the Bulletin. It has important information you will need for future reference.

**Each 2022 candidate must review and carefully read, print or download this Test Bulletin.**

## GENERAL INFORMATION

The IICL, organized in 1971, maintains its headquarters and staff in Westchester County approximately 35 miles north of New York City. It is active in governmental, regulatory, safety, technical, electronic communication, and environmental fields throughout the world. The members of IICL are engaged in leasing marine cargo containers to ship operators and others on a broad international basis and chassis within the United States. IICL members account for approximately half of the world's containers and one-third of the chassis fleet in the United States.

The U.S. Department of Transportation (FMCSA, formerly FHWA) has issued regulations on the periodic inspection, repair and maintenance of commercial motor vehicles, including chassis (49 CFR 396 and 393). The regulations require annual inspections of chassis by a qualified chassis inspector according to specific USDOT criteria, and set forth record keeping requirements, inspectors' qualifications and other rules. The federal regulations are included in one manual on chassis published by IICL: the *Guide for Container Chassis Inspection and Maintenance, 4<sup>th</sup> edition* (2006).

**REQUIREMENTS FOR CERTIFICATION** The chassis examination is open to anyone in the U.S. or elsewhere interested in becoming certified as a chassis inspector. Prior experience in the field will be helpful to a candidate, but is not a prerequisite for taking the test. Certification is awarded to all candidates who pass the examination and is valid for five years. An inspector must pass the examination again before certification is reissued. The chassis test will be given at test centers in the United States, and elsewhere, if requested. Certification does not authorize an individual to represent IICL in any manner. Certification may be revoked by IICL for any of the following reasons: willfully falsifying information on the registration form, making unauthorized material available to others, or misuse of certification.

### **DESCRIPTION OF THE EXAMINATION:**

The examination consists of 100 multiple-choice questions in **English and is a closed book exam**. You will have **2 hours** to complete the examination.

**The questions are based on the following guide and technical bulletins:**

1. *Guide for Container Chassis Inspection and Maintenance, 4<sup>th</sup> edition* (2006).
2. Also, please visit <http://www.iicl.org/techcorner/chassis.cfm> and read the following Technical Bulletins to prepare for the the Chassis Inspector Certification Examination.

### **IICL TB 018 10 June 2015**

**Title: Guidelines for Anti-Lock Braking Systems**

Reference: This TB addresses various technical guidelines regarding anti-locking braking systems

### **IICL TB 019 10 June 2015**

**Title: Parts and Accessories for a Safe Operation 393**

### **IICL TB 020 10 June 2015**

**Title: Summary of FMCSA Roadability**

Reference: This TB is an IICL summary of the Federal Register 49 CFR (various parts) FMCSA roadability rules.

### **IICL TB 021 – 26 March 2015**

**Title: Best Practices – Removal and Installation of Wheel Assembly (Tire Mounted to Rim Assembly) From Container Chassis**

### **IICL TB 022 - 3 June 2015**

**Title: Chassis Brake Stroke**

You may purchase the guide by visiting the IICL store online at <http://www.iicl.org/store/storeform.cfm>

## REGISTRATION Registrations & Fees must be received ASAP to ensure seating.

- Complete the registration online electronically - <https://www.iicl.org/education/certification.cfm>
- **Registration Fees.** Registrations that have not been paid will remain pending until payment is received.
- **Registration Notification.** Notification of Registration is sent by e-mail upon registration completion online. When you submit and complete your online registration you will receive an automated examination **Member ID Number**. Contact IICL if you do not receive a prompt automated online notification via email to ensure IICL received your registration. Please check all junk and spam folders for the online registration confirmation.

## TEST CENTERS - Please visit IICL web page <http://iicl.org/education/certification.cfm>

**REGULAR TEST CENTERS** The examination is administered at regular sites around the world. In the event that the test center is cancelled, IICL will allow test candidates to take the test at another location or give a full refund to the candidate if no other location is acceptable.

## REFUND POLICIES and CANCELLATION SCHEDULE

A candidate may cancel his/her registration before the examination date; however, all fees for candidates canceling before the test date will be refunded according to the schedule below. **Refunds will only be made if a candidate notifies IICL prior** to one of the cancellation dates by e-mail, phone, or letter.

### CANCELLATION FEE SCHEDULE

**Cancellations until 30 April 2022 (1<sup>st</sup> session):**

**Cancellations until 31 October 2022 (2<sup>nd</sup> session):**

Registration fee refunded minus \$50.00 cancellation fee

**Cancellations from 1 May thru 31 May 2022 (1<sup>st</sup> session):**

**Cancellations from 1 Nov thru 30 Nov 2022 (2<sup>nd</sup> session):**

Registration fee refunded minus \$100.00 cancellation fee

**NO REFUNDS AFTER 31 MAY 2022 (1<sup>ST</sup> SESSION) AND 30 NOVEMBER 2022 (2<sup>ND</sup> SESSION)**

## ABSENCE

If a candidate does not cancel on or before 30 November 2022, the entire test registration fee may be forfeited. It is the responsibility of test candidates to notify IICL of any cancellations.

## SUBSTITUTIONS

**Deadline: 29 December 2022**

If a candidate is unable to sit for the exam and wishes to substitute another candidate from the same company for the examination, the substitute candidate must e-mail [info@iicl.org](mailto:info@iicl.org) the substitutes name and email address along with the current candidates name, purchase confirmation/order number and test center city to be replaced at no additional cost.

## TESTING DAY PROCEDURES

Report to the assigned test center on the selected date, follow any instructions given and please be prompt!

### WHAT TO BRING TO THE TEST CENTER

- 2 Forms of picture ID, Recent (current) and valid photo-identification, such as a government issued ID, a passport or driver's license. Anything else required and outlined by PearsonVue in the examination reservation confirmation.

**REGULATIONS AT THE TEST CENTER** To ensure that all candidates are tested under equally favorable conditions, the following regulations and procedures will be observed at each center.

- NO beepers, cellular telephones, books or papers of any kind are allowed in the examination location. This means that NO dictionaries can be brought into the testing room. IICL suggests that non-English-speaking candidates memorize the names of container components, procedures and materials as provided in the IICL manuals, and also the "English words and phrases" on page 10.
- Candidates needing to use the restroom during an examination must secure permission from the supervisor.
- Candidates discovered engaging in any kind of misconduct, such as giving or receiving help, talking during the examination, taking part in an act of impersonation, or removing test materials or notes from the testing room, may be summarily dismissed from the examination and will be reported to IICL.
- There are no Interpreters admitted to the exam test center.

**TEST SECURITY PROCEDURES** Any doubts raised about the validity of an individual candidate's score will be thoroughly investigated. Some scores may be rendered invalid because of circumstances beyond a candidate's control. When such circumstances are discovered, IICL will arrange a makeup administration for the candidates concerned at no charge. If misconduct (such as giving or receiving help, attempting to take the examination for someone else, or removing test materials) is suspected, IICL will investigate all circumstances of the case. As a result, scores may be delayed in being reported.

## CERTIFICATES and CHASSIS INSPECTOR DIRECTORY LISTING

**NOTE: Exam scores for the test takers will be automated and posted in the "My Transcript" section of each candidates IICL User Account within 2 days after you take the exam. You will need to log back into this education portal and sign into your user account to view your score. If you pass the examination you will have the capability to print your own certification. Visit <https://testing.iicl.org/login/> sign-in and click on "My Transcript" to view your score. The examination is closed book and the passing score is 67%.**

All candidates who pass the examination will receive an IICL Chassis Inspector's Digital Certificate confirming their certifications.

Certified inspectors' names are published annually in the IICL *Inspection Directory* which is posted on IICL's website. All candidates will have to visit the *Inspection Directory* via <http://www.iicl.org/directory/inspectorsSearch.cfm> and edit/update their information for it to post in the Certified Inspector Directory.

For candidates receiving a score of 90% or higher, IICL awards an Honor's Certificate.

## CONTENT OUTLINE FOR CHASSIS INSPECTOR'S EXAMINATION

Candidates should be familiar with all recommendations and information contained in the following publication:

1. ***Guide for Container Chassis Inspection and Maintenance, 4<sup>th</sup> edition (2006).***

The Guide includes the following information:

- **Purpose of chassis inspection, Types of chassis**
- **General inspection procedures and sequence**
- **Description of chassis components to be checked, conditions to be corrected, specific inspection procedures to be carried out for each component, etc. Nineteen diagrams. Candidates should be able to identify all chassis components.**
- **Inspection criteria for chassis (Table 5.1 – 5.10). Includes USDOT requirements.**
- **Definitions and examples of wear and damage**
- **Glossary. Candidates should be familiar with all chassis terminology.**
- **Chassis conditions (color photos)**
- **Chassis Periodic Inspection Form, Sample Periodic Inspection Certification Decal**
- **Tables on lighting, conspicuity and brake readjustment limit requirements**
- **Recommended table of criteria for inspections and planned preventive maintenance of container chassis. The manual contains a table listing components to be inspected or repaired at regular intervals, criteria for determining if repair of maintenance is required, and recommended maintenance or repair procedures to be performed as required. USDOT requirements for all components, including conspicuity rules as of 1996, are included in the Annual Schedule.**

Candidates do NOT have to memorize the CEDEX codes for chassis.

Also, please visit <http://www.iicl.org/techcorner/chassis.cfm> and read the following Technical Bulletins to prepare for the the Chassis Inspector Certification Examination.

- **[IICL TB 018 10 June 2015](#)**

**Title: Guidelines for Anti-Lock Braking Systems**

Reference: This TB addresses various technical guidelines regarding anti-locking braking systems

- **[IICL TB 019 10 June 2015](#)**

**Title: Parts and Accessories for a Safe Operation 393**

Reference: This TB addresses the Parts and Accessories necessary for the safe operation of a commercial vehicles and taken from 49 CFR 393 of the Federal Regulations.

- **[IICL TB 020 10 June 2015](#)**

**Title: Summary of FMCSA Roadability**

Reference: This TB is an IICL summary of the Federal Register 49 CFR (various parts) FMCSA roadability rules.

- **[IICL TB 021 – 26 March 2015](#)**

**Title: Best Practices – Removal and Installation of Wheel Assembly (Tire Mounted to Rim Assembly) From Container Chassis**

- **[IICL TB 022 - 3 June 2015](#)**

**Title: Chassis Brake Stroke**

## SAMPLE QUESTIONS

DIRECTIONS: Each of the questions or incomplete statements below is followed by 4 suggested answers. Select the best one in each case.

1. The device that compensates for brake wear and is used to position brake lining with respect to the drum is called the
  - (A) Brake chamber
  - (B) 121 brake system
  - (C) Anti-lock brakes
  - (D) Slack adjuster
2. Under USDOT regulations, the license plate lamp color must be
  - (A) amber
  - (B) white
  - (C) yellow
  - (D) red
3. How often must an upper coupler be inspected?
  - (A) Daily
  - (B) Monthly
  - (C) Biannually
  - (D) Annually
4. When the air tank is filled and the brake system charged, the leak rate should not exceed a minimum of
  - (A) 2 psi per minute
  - (B) 3 psi per minute
  - (C) 4 psi per minute
  - (D) 5 psi per minute
5. The proper repair to correct mismatched tires exceeding 7/16 inch includes which of the following:
  - I. Inflate the lower tire until it matches the other
  - II. Replace to match
  - III. Exchange to match
  - (A) I and II only
  - (B) I and III only
  - (C) II and III only
  - (D) I, II, and III
6. Which of the following actions should be taken if a twist lock handle extends beyond the chassis envelope in the open position?
  - (A) Reposition it by cutting and welding
  - (B) Straighten it with a hammer, if possible
  - (C) Have the depot note the condition on the outbound equipment interchange receipt (EIR)
  - (D) No repair is necessary if, when locked, it is within the chassis envelope
7. Which of the following brake components should be scheduled for inspection daily or before each use?
  - (A) Brake drums
  - (B) Anchor pins
  - (C) Air tanks
  - (D) Brake linings
8. Which of the following defects would need to be corrected before a chassis could pass a USDOT inspection?
  - I. A missing leaf in a multi-leaf spring assembly
  - II. A 1 inch (25 mm) dent in a crossmember in an upwards direction
  - III. A bolt hole on a disc-type wheel that is elongated 1/8 in (3 mm)
  - (A) I and II only
  - (B) I and III only
  - (C) II and III only
  - (D) I, II, and III
9. When performing an axle alignment, a chassis inspector should measure from the
  - (A) front edge of the bolster to the front outside tires
  - (B) rear bolster to the center of the front axle
  - (C) kingpin to the outside edge of the front tires
  - (D) kingpin to the leading edge of the brake drums on both side of the front axle
10. The term "bolsters" may best be defined as the
  - (A) mounting structures for container securing devices
  - (B) steel supports for the kingpin pick-up plate
  - (C) steel plates between the spring hangers and main rails
  - (D) brackets used on air tanks

**ANSWERS: 1. D; 2. B; 3. D; 4. B; 5. C; 6. D; 7. C; 8. B; 9. D; 10. A**