

# APPRENTICESHIP & CERTIFICATION

## Study Guide Truck and Transport Mechanic



  
Newfoundland  
Labrador

**Apprenticeship and Certification**

**Study Guide**

**Truck and Transport Mechanic**

**(Based on 2010 NOA)**

Government of Newfoundland and Labrador  
Department of Advanced Education, Skills and Labour  
Apprenticeship and Trades Certification Division

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# Introduction

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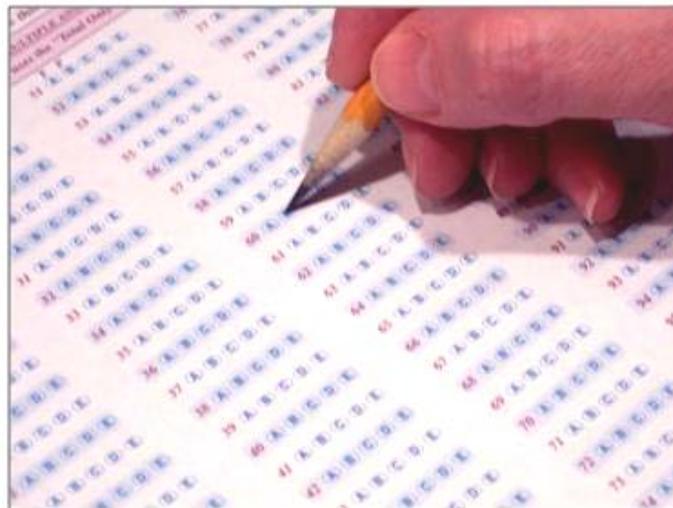
This Study Guide has been developed by the Newfoundland and Labrador Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division, to assist apprentices and trade qualifiers as they prepare to write the Interprovincial (IP) Red Seal Exam. IP Exams are available for all Red Seal trades. For a list of Interprovincial trades please refer to the Department of Advanced Education, Skills and Labour website:

[www.ed.gov.nl.ca/app/trades.html](http://www.ed.gov.nl.ca/app/trades.html)

**Some of the specific goals of this guide are:**

- ⇒ to help you understand the skills and knowledge that might be covered on the exam
- ⇒ to help you identify your strengths and weaknesses
- ⇒ to provide organization and structure for a course of study
- ⇒ to provide a list of resources to help you with your study plan
- ⇒ to support and supplement the teaching and learning process

This study guide outlines the theoretical portion of the program. The intent is not to replace technical training provided under the guidance of instructors. Rather, it is a tool to be used in conjunction with formal training.



## Exam Process

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### Before the Exam

You must contact the nearest Apprenticeship and Trades Certification Divisional office to make request to write the IP Red Seal exam (*See Appendix A for a list of regional offices*). Upon approval, the Program Development Officer (PDO) will notify you of your eligibility to write the exam, and provide you with scheduling information. If you require special accommodations due to a disability or language barrier, please contact your regional office for information on applying for this service.

### During the Exam

**You must bring:**

- personal identification such as a photo or signature ID or valid Newfoundland and Labrador driver's license
- your notification letter

**The following will be provided:**

- a calculator (*see Appendix B for calculator information*)
- all other items required such as pencils, scrap paper, etc.

**Important Note:**

Personal cell phones, calculators, or other electronic equipment are NOT allowed into the exam room. If you do bring them, they will be stored away and returned to you when you have completed the exam.

### After the Exam

Results will be mailed to you approximately seven to ten days after completion of the exam. All necessary instructions and information will be provided in the results letter.

The percentage mark you obtained will be provided. You will also be given a section by section breakdown, showing how many questions were in each section, as well as the number of questions in each section you completed successfully.

If you are successful in obtaining a 70% or more on your exam, you will be issued a Newfoundland and Labrador Certificate of Qualification with a Red Seal endorsement.

## Exam Format

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All IP Red Seal exams are written in multiple-choice format. Each exam has between 100 and 150 questions. A multiple choice question consists of a stem (a complete question) followed by four options (A, B, C, D). The stem contains all the information necessary to answer the question. The options consist of the one correct answer and three “distracters.” Distracters are incorrect. (See Appendix C for a sample answer sheet).

IP Red Seal exams contain three types of questions:

### Level 1 Knowledge and Recall

Questions at this level test your ability to recall and understand definitions, facts, and principles.

### Level 2 Procedural and Application

Questions at this level test your ability to apply your knowledge of procedures to a new situation.

### Level 3 Critical Thinking

Questions at this level test your ability to interpret data, solve problems and arrive at valid conclusions.

#### Level 1 Examples:

1. What is the ratio to use when replacing engine coolant with standard antifreeze?
  - A. 30% water, 70% antifreeze.
  - B. 50% water, 50% antifreeze.
  - C. 70% water, 30% antifreeze.
  - D. 75% water, 25% antifreeze.



2. What is done to test the pickup coil in an electronic ignition?

- A. Test coil at 60°C (140°F).
- B. Test the voltage with a voltmeter.
- C. Test the resistance with an ohmmeter.
- D. Remove coil from vehicle before testing.



3. What has to be done after installing a new accessory belt?

- A. Check the belt tension at next service.
- B. Check the belt tension after running the engine.
- C. Ensure the top of the belt is fully recessed in the pulleys.
- D. Set the tension to 0 deflection to compensate for belt stretch.



### Level 2 Examples:

1. What is checked to verify low power on a diesel engine during a road test?

- A. Boost and fuel pressures.
- B. Boost and crankcase pressures.
- C. Fuel pressure and exhaust temperature.
- D. Fuel temperature and exhaust back pressure.



2. What is done to detect a leak on the primary side of a diesel engine fuel system?

- A. Check all fuel lines with soap and water.
- B. Cap fuel return line and pressurize line at primary filter.
- C. Apply fluorescent to fuel and check lines with black light.
- D. Apply minimal pressure to fuel tank and check lines for leaks with soap and water.



3. What is the final step before returning a vehicle to service?

- A. Road test the vehicle.
- B. Clear active fault codes.
- C. Clear historic fault codes.
- D. Update vehicle service records.



### Level 3 Examples:

1. When a starter is dismantled, it is noticed that the armature has made contact with the field windings. What is the cause?

- A. Armature swelling.
- B. Field winding swelling.
- C. Commutator bar wear.
- D. Armature bushings wear.



2. An engine is losing coolant, but there is no external leakage. What is done to determine the cause of the problem?
- A. Pressurize the oil system and check for oil in the cooling system.
  - B. Pressurize the fuel system and check for signs of fuel in the coolant.
  - C. Check exhaust manifold for poor cylinder performance with a heat thermometer.
  - D. Drain the oil, pressurize the cooling system, and check for coolant leaks at the drain plug.



3. Excessive oil contamination is found in the secondary reservoir. What is the cause?
- A. Faulty air dryer.
  - B. Faulty purge valve.
  - C. Faulty turbo charger.
  - D. Faulty air compressor.



Source:

[www.red-seal.ca/s.1mpl.2.2x.1mQ.5.2st.3.4ns-eng.html?tid=243](http://www.red-seal.ca/s.1mpl.2.2x.1mQ.5.2st.3.4ns-eng.html?tid=243)

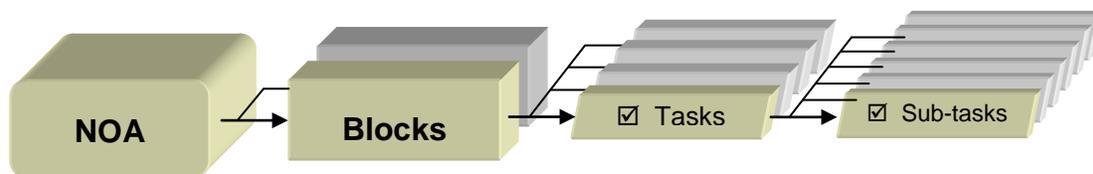
## Exam Content

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### Understanding the *National Occupational Analysis (NOA)*

The NOA is a document used for Red Seal trades that describes the knowledge, skills and abilities required by a fully competent tradesperson working in that trade. The content for the IP Red Seal exam is based on the NOA. The NOA is an excellent tool to use as you study for the Red Seal exam. NOAs can be found at [www.red-seal.ca](http://www.red-seal.ca).

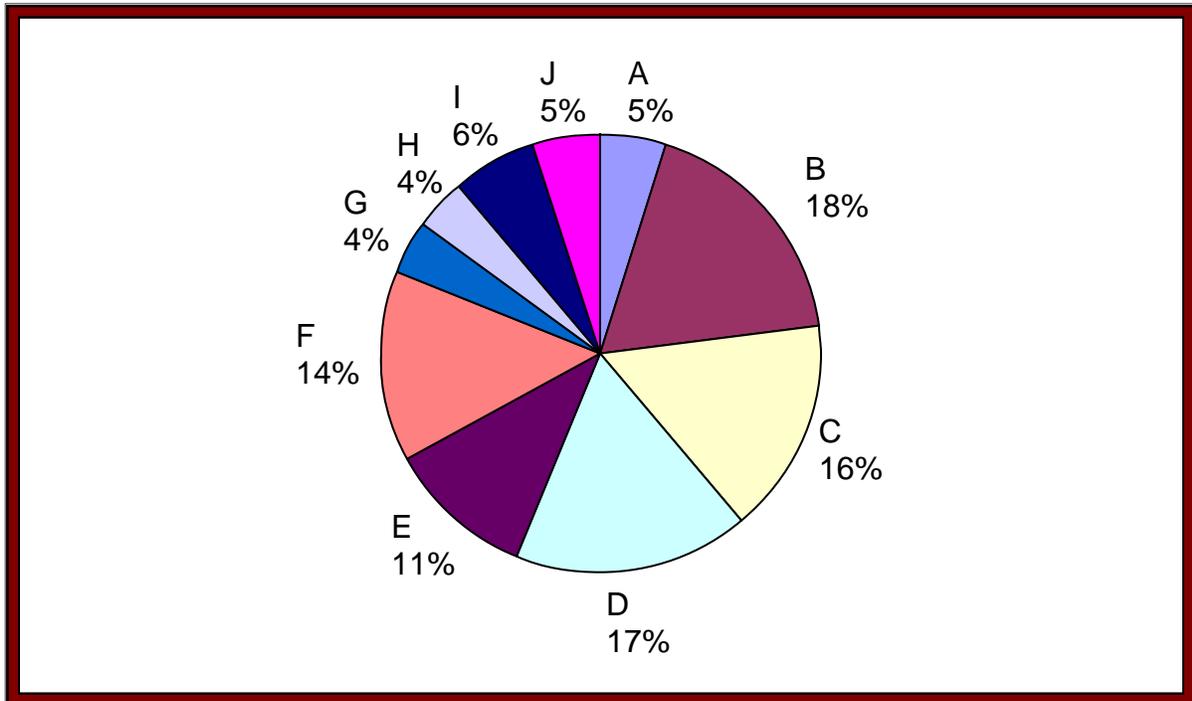
NOA material is organized into major content areas called **BLOCKS**. The blocks are further broken down into **TASKS** and **SUB-TASKS**.



## NOA Pie Chart

The NOA Pie Chart presents the block percentages in the form of a pie chart which tells you the approximate number of questions from each block. For example, 5% of the questions on the **Truck and Transport Mechanic Exam** will be based on **Block A**.

### TRUCK AND TRANSPORT MECHANIC



Block Titles			
<b>Block A</b>	Occupational Skills	<b>Block F</b>	Steering, Chassis/Frames, Suspension, Wheels, Hubs and Tires
<b>Block B</b>	Engine and Supporting Systems	<b>Block G</b>	Cab
<b>Block C</b>	Air Systems and Brakes	<b>Block H</b>	Trailers
<b>Block D</b>	Electrical and Electronic Systems	<b>Block I</b>	Climate Control
<b>Block E</b>	Drive Train	<b>Block J</b>	Hydraulic Systems

## Exam Breakdown

The **Truck and Transport Mechanic** exam currently has 150 questions. The following table shows a breakdown of the number of questions that come from each NOA block. It is important to note that the exact number of questions can change at any time. When you are ready to write your exam, you may contact your regional office to verify the number of questions (See Appendix A).

		# of Questions
<b>Block A</b>	<b>Occupational Skills</b>	<b>8</b>
<b>Task 1</b>	Maintains tools and equipment	
<b>Task 2</b>	Organizes work	
<b>Task 3</b>	Performs routine trade activities	
<b>Block B</b>	<b>Engine and Supporting Systems</b>	<b>24</b>
<b>Task 4</b>	Diagnoses engine and supporting systems	
<b>Task 5</b>	Services engine and supporting systems	
<b>Block C</b>	<b>Air Systems and Brakes</b>	<b>23</b>
<b>Task 6</b>	Diagnoses air systems and brakes	
<b>Task 7</b>	Services air systems and brakes	
<b>Block D</b>	<b>Electrical and Electronic Systems</b>	<b>25</b>
<b>Task 8</b>	Diagnoses electrical systems	
<b>Task 9</b>	Services electrical systems	
<b>Task 10</b>	Diagnoses electronic systems	
<b>Task 11</b>	Services electronic components	
<b>Block E</b>	<b>Drive Train</b>	<b>19</b>
<b>Task 12</b>	Diagnoses drive train	
<b>Task 13</b>	Services drive train	
<b>Block F</b>	<b>Steering, Chassis/Frames, Suspension, Wheels, Hubs and Tires</b>	<b>21</b>
<b>Task 14</b>	Diagnoses steering system, chassis/frames, suspension, wheels, hubs and tires	
<b>Task 15</b>	Services steering system, chassis/frames, suspension, wheels, hubs and tires	
<b>Block G</b>	<b>Cab</b>	<b>8</b>
<b>Task 16</b>	Diagnoses cab components	
<b>Task 17</b>	Services cab components	

<b>Block H</b>	<b>Trailers</b>	<b>6</b>
<b>Task 18</b>	Diagnoses trailer components	
<b>Task 19</b>	Services trailer components	
<b>Block I</b>	<b>Climate Control</b>	<b>8</b>
<b>Task 20</b>	Diagnoses climate control systems	
<b>Task 21</b>	Services climate control systems	
<b>Block J</b>	<b>Hydraulic Systems</b>	<b>8</b>
<b>Task 22</b>	Diagnoses hydraulic systems	
<b>Task 23</b>	Services hydraulic systems	
	<b>Total</b>	<b>150</b>

## NOA Sub-tasks

The following *NOA Task Profile Checklist* outlines the blocks, tasks and sub-tasks for your trade. The IP Red Seal exam is written to test your knowledge and abilities regarding the sub-tasks in the NOA. This chart can be used to review your current knowledge. You can review by placing a checkmark (✓) next to those you understand fully.

Place your focus on those you do not understand and study them until you are comfortable with the material. Think of possible questions in that particular content area.

The NOA also contains a list of “supporting knowledge and abilities” for each sub-task. They are the skills and knowledge you must have to perform a sub-task. The supporting knowledge and abilities identified under each sub-task will be very helpful as you review. The list can be found in the NOA for your trade.

**Task Profile Checklist  
Based on 2010 NOA  
Truck and Transport Mechanic**

**Block A: Occupational Skills**

**Task 1: Maintains tools and equipment**

*Sub-Tasks*

- Maintains hand tools
- Maintains power tools
- Maintains measuring, testing and diagnostic tools
- Maintains hoisting and lifting equipment
- Maintains personal protective equipment (PPE) and safety equipment
- Maintains staging equipment
- Maintains solvent washers and biological parts washers

**Task 2: Organizes work**

*Sub-Tasks*

- Uses documentation and reference materials
- Communicates with others
- Maintains safe work environment

**Task 3: Performs routine trade activities**

*Sub-Tasks*

- Uses computer for diagnostics
- Maintains fluids, lubricants and coolants
- Uses fasteners, sealing devices, adhesives and gaskets
- Services hoses, tubing and fittings
- Services bearings, bushings and seals
- Services filters
- Uses welding equipment
- Uses cutting equipment
- Verifies vehicle repairs
- Conducts road tests

## Block B: Engine and Supporting Systems

### Task 4: Diagnoses engine and supporting systems

#### Sub-Tasks

- Diagnoses base engine
- Diagnoses cooling system
- Diagnoses lubrication system
- Diagnoses fuel delivery system
- Diagnoses intake and exhaust systems
- Diagnoses emission systems for diesel engines
- Diagnoses engine management system

### Task 5: Services engine and supporting systems

#### Sub-Tasks

- Services base engine
- Services cooling system
- Services lubrication system
- Services fuel delivery system
- Services intake and exhaust systems
- Services emission systems for diesel engines
- Services engine management system

## Block C: Air Systems and Brakes

### Task 6: Diagnoses air systems and brakes

#### Sub-Tasks

- Diagnoses air systems
- Diagnoses brake systems
- Diagnoses auxiliary braking systems

### Task 7: Services air systems and brakes

#### Sub-Tasks

- Services air systems
- Services brake systems
- Services auxiliary braking systems

## Block D: Electrical and Electronic Systems

### Task 8: Diagnoses electrical systems

#### Sub-Tasks

- Diagnoses batteries
- Diagnoses charging systems
- Diagnoses starting systems
- Diagnoses electrical components and accessories

### Task 9: Services electrical systems

#### Sub-Tasks

- Services batteries
- Services charging systems
- Services starting systems
- Services electrical components and accessories

### Task 10: Diagnoses electronic systems

#### Sub-Tasks

- Diagnoses spark ignition systems
- Diagnoses electronic components and accessories
- Diagnoses vehicle management systems

### Task 11: Services electronic components

#### Sub-Tasks

- Services spark ignition systems
- Services electronic components and accessories
- Services vehicle management systems

## Block E: Drive Train

### Task 12: Diagnoses drive train

#### Sub-Tasks

- Diagnoses clutches
- Diagnoses standard transmissions and transfer cases
- Diagnoses automatic transmissions
- Diagnoses automated transmissions
- Diagnoses driveline systems
- Diagnoses differentials

### Task 13: Services drive train

#### Sub-Tasks

- Services clutches
- Services standard transmission and transfer cases
- Services automatic transmissions
- Services automated transmissions
- Services driveline systems
- Services differentials

## Block F: Steering Chassis/Frames, Suspension, Wheels, Hubs and Tires

### Task 14: Diagnoses steering system, chassis/frames, suspension, wheels, hubs and tires

#### Sub-Tasks

- Diagnoses steering system
- Diagnoses chassis/frames
- Diagnoses suspension
- Diagnoses hitches and couplers
- Diagnoses tires, wheels and hubs

### Task 15: Services steering system, chassis/frames, suspension, wheels, hubs and tires

#### Sub-Tasks

- Services steering system
- Services chassis/frames
- Services suspension
- Services hitches and couplers
- Services tires, wheels and hubs

## Block G: Cab

### Task 16: Diagnoses cab components

#### Sub-Tasks

- Diagnoses interior components
- Diagnoses exterior components

### Task 17: Services cab components

#### Sub-Tasks

- Services interior components
- Services exterior components

## Block H: Trailers

### Task 18: Diagnoses trailer components

#### Sub-Tasks

- Diagnoses landing gear
- Diagnoses trailer body accessories and components

### Task 19: Services trailer components

#### Sub-Tasks

- Services landing gear
- Services trailer body accessories and components

## Block I: Climate Control

### Task 20: Diagnoses climate control systems

#### Sub-Tasks

- Diagnoses heating and ventilation systems
- Diagnoses air conditioning systems

### Task 21: Services climate control systems

#### Sub-Tasks

- Services heating and ventilation systems
- Services air conditioning systems

## Block J: Hydraulic Systems

### Task 22: Diagnoses hydraulic systems

#### *Sub-Tasks*

- Diagnoses hydrodynamic systems
- Diagnoses hydrostatic systems

### Task 23: Services hydraulic systems

#### *Sub-Tasks*

- Services hydrodynamic systems
- Services hydrostatic systems

## Create a Study Plan

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As you prepare for your exam, it is important to plan a schedule. The following two tables will help you stay on track.

The first table is a **“Weekly Study Plan.”** In this table list the areas you will focus your study for each day. You should include items you need to review as well as items you need to study. Remember, more time will be needed for study in areas you find difficult, whereas you may only require review in areas you are more familiar with. As you work through the NOA sub-task list you can start to fill in this table.

The second table is a **“Study Time Table.”** It is important to create a study schedule where you determine the best days of the week and times of day for you to study.

Print several copies of these tables and fill out for each week of study. It is important to stick to your study schedule.



**Weekly Study Plan for Week of:** \_\_\_\_\_

	Area of Study 1	Area of Study 2	Area of Study 3	Area of Study 4	Area of Study 5	Area of Study 6
Mon.						
Tues.						
Wed.						
Thu.						
Fri.						
Sat.						
Sun.						

**Study Time Table for Week of:** \_\_\_\_\_

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8:00 AM - 9:00 AM							
9:00 AM - 10:00 AM							
10:00 AM - 11:00 AM							
11:00 AM - 12:00 Noon							
12:00 Noon - 1:00 PM							
1:00 PM - 2:00 PM							
2:00 PM - 3:00 PM							
3:00 PM - 4:00 PM							
4:00 PM - 5:00 PM							
5:00 PM - 6:00 PM							
6:00 PM - 7:00 PM							
7:00 PM - 8:00 PM							



## Resources - Websites

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Study information can be drawn from a variety of sources. A sample list of study materials (websites and books) is provided below. These and other helpful resources may be found in a local college bookstore, on the internet, or at your place of employment. You may also be able to borrow them from an apprentice or journey person in your trade.

### Study Strategies and Exam Preparation Guide

The *Study Strategies & Exam Preparation Guide* is meant to be used in conjunction with this study guide. It provides direction and information on such areas as study habits, test preparation and test taking techniques.

Exam Preparation Guide: [www.ed.gov.nl.ca/app/publications/exam\\_prep\\_guide.pdf](http://www.ed.gov.nl.ca/app/publications/exam_prep_guide.pdf)

### Plan of Training (POT)

A *Provincial Plan of Training* details the full scope of learning for a particular occupation, including both technical training competencies and industry experiences necessary to write an IP Red Seal exam (and complete the requirements for Red Seal Certification), or to write a provincial examination. The Plan of Training is based on the NOA.

POT Website: [www.ed.gov.nl.ca/app/plans.html](http://www.ed.gov.nl.ca/app/plans.html)

### Red Seal Website

**National Occupational Analysis** - The NOA is a document used for Red Seal trades that describes the knowledge and abilities required by a fully competent tradesperson working in that trade. The content for the IP exam is based on the NOA.

Red Seal Website: [www.red-seal.ca](http://www.red-seal.ca)

### Truck and Transport Mechanic PRACTICE Exam

This is **NOT** an IP exam. This is a practice exam provided by the Inter-provincial Standards Red Seal program. It was developed using similar question types to that of a Red Seal exam. The exam is intended to be used for self-assessment in preparation for writing an IP Exam.

Sample questions can be found at:

[www.red-seal.ca/s.1mpl.2.2x.1mQ.5.2st.3.4ns-eng.html?tid=243](http://www.red-seal.ca/s.1mpl.2.2x.1mQ.5.2st.3.4ns-eng.html?tid=243)

### Glossary of Terms

The Red Seal website also lists a Glossary of Terms which will be helpful in preparing for your IP exam: [www.red-seal.ca/trades/trucktranspmech/2010n.4.1.1ppb\\_gl.4ss.1ry-eng.html](http://www.red-seal.ca/trades/trucktranspmech/2010n.4.1.1ppb_gl.4ss.1ry-eng.html)

## Resources – Book List

The books listed below are sorted according to NOA blocks as referenced throughout this study guide. You can use this list to help you obtain information on specific topics. It is not necessary to use these books specifically, as you may find others that will be equally beneficial.

BOOK	Block									
	A	B	C	D	E	F	G	H	I	J
Heavy Duty Truck Systems, 4 <sup>th</sup> edition	✓	✓	✓	✓	✓	✓		✓	✓	✓
Diesel Mechanics, 4 <sup>th</sup> edition	✓	✓		✓						
Medium/Heavy Duty Truck Engines, Fuel & Computerized Management Systems, 3 <sup>rd</sup> edition		✓		✓	✓					
Canadian Truck and Transport Technician: Inter-provincial Certificate of Qualification Test Preparation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**If you wish to obtain any of the resources listed above, here is the reference information:**

- Heavy Duty Truck Systems*, 4<sup>th</sup> edition, Delmar Gengage Learning, 2006, Bennett and Norman, ISBN 978-1-4018-7064-5
- Diesel Mechanics*, 4<sup>th</sup> edition, McGraw-Hill, 1999, Evridge and Schulz, ISBN 0-02-803462-7
- Medium/Heavy Duty Truck Engines, Fuel & Computerized Management Systems*, 3<sup>rd</sup> edition, Delmar Gengage Learning, 2009, Bennett, ISBN 1-4283-6666-0
- Canadian Truck and Transport Technician: Interprovincial Certificate of Qualification Test Preparation*, Centennial College Press, 2003, Bennett, Parsons and Restoule, ISBN 0-919852-44-0

## Disclaimer

Various external resources (websites, textbooks) have been listed in this study guide to assist an individual in preparing to write an IP Red Seal Exam. This does not mean the Department of Advanced Education, Skills and Labour, Newfoundland and Labrador endorses the material or that these are recommended as the best resources. There may be other resources of equal or greater value to an individual preparing for an IP Red Seal exam. The Department of Advanced Education, Skills and Labour has no control over the content of external textbooks and websites listed, and no responsibility is assumed for the accuracy of the material.

## Conclusion

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We hope this guide has provided you with some useful tools as you prepare for your IP Red Seal exam. If you have any questions regarding your IP Red Seal exam please contact your regional office (*see Appendix A for a list of regional offices*).

We appreciate your comments and feedback regarding the usefulness of this study guide. If you have any comments or suggestions, we welcome your feedback. The feedback form at the end of this guide can be used for this purpose.

## Appendix A: Regional Offices

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If you have any questions regarding your IP Red Seal exam, please contact one of the following regional offices:

Department of Advanced Education, Skills and Labour  
Apprenticeship and Trades Certification Division  
Toll Free: 1-877-771-3737  
[www.ed.gov.nl.ca/app/](http://www.ed.gov.nl.ca/app/)

Corner Brook
1-3 Union Street Aylward Building, 2 <sup>nd</sup> Floor Corner Brook, NL A2H 5M7
Telephone: (709) 637-2366 Facsimile: (709) 637-2519

Grand Falls-Windsor
42 Hardy Avenue Grand Falls- Windsor, NL A2A 2J9
Telephone: (709) 292-4215 Facsimile: (709) 292-4502

Clareville
45 Tilley's Road Clareville, NL A5A 1Z4
Telephone: (709) 466-3982 Facsimile: (709) 466-3987

St. John's
Confederation Building P.O. Box 8700 St. John's, NL A1B 4J6
Telephone: (709) 729-5688 Facsimile: (709) 729-5878

Happy Valley – Goose Bay
163 Hamilton River Road Burse Building Happy Valley – Goose Bay, NL A0P 1E0
Telephone: (709) 896-6348 Facsimile: (709) 896-3733

## ***Appendix B: Calculator Use***

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The picture below shows a calculator with the same functions as the one you will be provided with during your exam. It is advisable to borrow or purchase one with similar functions so that you can familiarize yourself with it before you write your exam.



# Appendix C: Answer Sheet Example

With your exam you will be given an answer sheet similar to the one below. When answering multiple choice questions be sure to fill the circle completely and fill the circle that corresponds to the question on the exam.

Dual readhead scanner  required  to score this sheet

KEY ID  
 A  B  C  D

SCORING & PRINTING OPTIONS:  
 RESCORE  MULTIPLE ANSWER SCORING  
 This sheet always uses the "Total Only" scoring option.

FEED IN THIS DIRECTION

1	A B C D E	26	A B C D E	51	A B C D E	76	A B C D E
2	A B C D E	27	A B C D E	52	A B C D E	77	A B C D E
3	A B C D E	28	A B C D E	53	A B C D E	78	A B C D E
4	A B C D E	29	A B C D E	54	A B C D E	79	A B C D E
5	A B C D E	30	A B C D E	55	A B C D E	80	A B C D E
6	A B C D E	31	A B C D E	56	A B C D E	81	A B C D E
7	A B C D E	32	A B C D E	57	A B C D E	82	A B C D E
8	A B C D E	33	A B C D E	58	A B C D E	83	A B C D E
9	A B C D E	34	A B C D E	59	A B C D E	84	A B C D E
10	A B C D E	35	A B C D E	60	A B C D E	85	A B C D E
11	A B C D E	36	A B C D E	61	A B C D E	86	A B C D E
12	A B C D E	37	A B C D E	62	A B C D E	87	A B C D E
13	A B C D E	38	A B C D E	63	A B C D E	88	A B C D E
14	A B C D E	39	A B C D E	64	A B C D E	89	A B C D E
15	A B C D E	40	A B C D E	65	A B C D E	90	A B C D E
16	A B C D E	41	A B C D E	66	A B C D E	91	A B C D E
17	A B C D E	42	A B C D E	67	A B C D E	92	A B C D E
18	A B C D E	43	A B C D E	68	A B C D E	93	A B C D E
19	A B C D E	44	A B C D E	69	A B C D E	94	A B C D E
20	A B C D E	45	A B C D E	70	A B C D E	95	A B C D E
21	A B C D E	46	A B C D E	71	A B C D E	96	A B C D E
22	A B C D E	47	A B C D E	72	A B C D E	97	A B C D E
23	A B C D E	48	A B C D E	73	A B C D E	98	A B C D E
24	A B C D E	49	A B C D E	74	A B C D E	99	A B C D E
25	A B C D E	50	A B C D E	75	A B C D E	100	A B C D E

ANSWER KEY INFO.  
 # OF KEYS  
 ITEM COUNT

0	0	0	2
1	1	1	3
2	2	2	4
3	3	3	5
4	4	4	6
5	5	5	7
6	6	6	8
7	7	7	9
8	8	8	0
9	9	9	1

PERFORMANCE ASSESSMENT  
 % OF TOTAL SCORE  
 POINTS EARNED

0% = 100%			
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

Bar Code

NUMBER CORRECT	
PERCENT CORRECT	
ROSTER NUMBER	
SCORE	
RESCORE	

COMBINED POINTS EARNED	
COMBINED PERCENT CORRECT	
LETTER GRADE	
SCORE	
RESCORE	

200 ITEM

MARKING INSTRUCTIONS  
 Use a No. 2 Pencil  
 Fill oval completely  
 Erase cleanly

STUDENT ID NUMBER

0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

FEED IN THIS DIRECTION

NAME \_\_\_\_\_  
 SUBJECT \_\_\_\_\_  
 PERIOD \_\_\_\_\_ DATE \_\_\_\_\_



## Feedback Form

### Study Guide – Truck and Transport Mechanic

Please answer the following:

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- (1) This Study Guide is a useful tool for exam preparation.  
 strongly agree     agree     disagree     strongly disagree
- (2) The topics contained in the guide are arranged in a logical order.  
 strongly agree     agree     disagree     strongly disagree
- (3) The design and format of the guide caught my attention.  
 strongly agree     agree     disagree     strongly disagree
- (4) The instructions throughout the guide are clear and to the point.  
 strongly agree     agree     disagree     strongly disagree
- (5) The resources listed in this guide are suitable and valuable.  
 strongly agree     agree     disagree     strongly disagree
- (6) The guide should contain more information.  
 strongly agree     agree     disagree     strongly disagree

Suggested information/resources to include:

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Additional Comments:

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**Please complete this form and return via fax or mail to the following:**

Department of Advanced Education, Skills and Labour  
Apprenticeship and Trades Certification Division  
Standards and Curriculum Unit  
45 Tilley's Road < Clarenville, NL A5A 1Z4  
Fax: (709) 466-3987

