



# Board/Authority Authorised Course Commercial Driver Training Program – Introductory Course

School District/Independent School Authority Name	Kamloops/Thompson
School District/Independent School Authority Number	#73
Developed by	Ken Rife
Date Developed	December 2013
School Name	Norkam Secondary
Principal's Name (District)	Sheryl Lindquist
Superintendent Approval Date (for School Districts only)	
Superintendent Signature (for School Districts only)	
Board/Authority Approval Date	
Board/Authority Chair Signature	
Course Name	Commercial Driver Training Program – Introductory Course
Grade Level of Course	10
Number of Course Credits	4
Number of Hours of Instruction	120
Prerequisite(s)	NONE



## Special Training

Facilities or Equipment Required:

- Truck simulator
- Training aids
- Air brake training aids
- Shop
- Work gloves
- Safety vests
- Hard hats
- Safety glasses
- Applicable tools: wrenches, pressure gauges, rubber mallets

## Synopsis

Students will learn the basics of the operation, safety, driving techniques, and other related components of the professional driver occupation. Students will also learn about the career and how to obtain a professional Class 1 License. This course will promote independent thinking and problem solving.

## Rationale

Not only is being a professional truck driver a great profession, but there is a massive demand for this highly-skilled occupation. A 2013 Conference Board of Canada report concludes that the age of the average truck driver has increased more rapidly than the age of the average worker due to fewer young workers entering the industry. At the same time, demand for trucking services is projected to increase. By 2020, the gap between supply and demand of drivers is projected to be between 25,000 and 30,000 nationwide. In BC, the gap is anticipated to be between 2,200 and 4,500 depending on the strength of the economy. Because trucking plays an integral service role for so many industries, insufficient supply of truck drivers could have significant negative economic implications for the Canadian economy.

Unit/Topic	Title	Time
Unit 1	Occupation Training	40 Hours
Unit 2	Basic Driving Skills	40 Hours
Unit 3	Truck Systems	30 Hours
Unit 4	Obtaining A Driver's License	10 Hours
	Total Hours	120



## **Unit 1 – Occupation and Training**

**Objective:** Students will learn about the occupation and the training in order to become a professional commercial driver.

### **Curriculum Organizer:**

It is expected that students will learn:

- The realities of the job
- Become familiar with the training program
- Start making preparations to enter the job market
- Begin their participation in the program

### **Prescribed Learning Outcomes**

It is expected that students will:

1. Learn the types of transport including:
  - Municipal
  - Provincial
  - National
  - Cross Border
2. Learn the types of Employment:
  - Driver
  - Owner-Operator
3. Learn the current Labour Market:
  - Terms and conditions of employment
  - Employment opportunities
  - Working conditions
  - Health and safety
4. Learn how to access Information Services including:
  - Internet
  - Publications
  - Carrier Firms
  - Associations
5. Be able to understand available Career Direction:
  - Model profile
  - Interests and skills
  - Personal preferences
6. Begin the Training Program:
  - Content
  - Program requirements



## Unit 2 – Basic Driving Skills

**Objective:** Students will obtain the basic driving skills and knowledge relating to the operation of a commercial vehicle.

### Curriculum Organizer:

It is expected that students will learn:

- Learn how to start a truck
- How to use a clutch
- How to shift gears
- How to drive a truck forward
- How to reverse a truck
- How to steer a truck into turns
- How to be seen and using your mirrors

### Prescribed Learning Outcomes

It is expected that students will:

- Demonstrate how to start and turn off a truck
- Demonstrate how to shift gears effectively and at appropriate RPMs
- Demonstrate how to use a clutch and techniques such as double-clutching
- Understand the importance of using their mirrors
- Understand proper lane use and demonstrate which lane to use at appropriate times
- Demonstrate how to maneuver the truck including steering into turns, wheel position and turning radius
- Demonstrate the basic principles of backing up a truck with and without a guide

## Unit 3 – Truck Systems Part 1

**Objective:** Students will learn the capacities of tractor-trailer systems.

### Curriculum Organizer:

It is expected that students will learn:

- Specific characteristics of trucks
- Engine capabilities
- Transmission systems

### Prescribed Learning Outcomes

It is expected students will:

1. Be able to differentiate between makes and models of trucks and trailers and their characteristics
2. Be able to locate and understand the functions of indicators and switches on a dashboard
3. Learn about diesel engines including:
  - Basic Principles and Principles of Physics



- Makes and models
- Power and torque
- Optimization and service life
- 4. Understand the use of engine brakes.
- 5. Understand external components.
- 6. Understand the function and mechanism of the transmission systems in the following categories:
  - a. Using the clutch:
    - Basic Principles and Principles of Physics
    - Pedal path
    - Anomalies
  - b. Transmission Systems:
    - Basic Principles and Principles of Physics
    - Types and diagrams
    - Synchronization
    - Irregularities
  - c. Differential:
    - Basic Principles and Principles of Physics
    - Use of blocking systems
    - Irregularities
- 7. Types of Employment:
  - Driver
  - Owner-Operator
- 8. Labour Market:
  - Terms and Conditions of Employment
  - Employment Opportunities
  - Working Conditions
  - Health and Safety
- 9. Information services:
  - Internet
  - Publications
  - Carrier Firms
  - Associations
- 10. Career Direction:
  - Model Profile
  - Interests and skills
  - Personal preferences
- 11. Training programs:
  - Content
  - Code of ethics
  - Program regulations



## Unit 4 – Obtaining a Driver’s License

**Objective:** Students will understand how to obtain their BC Driver’s License.

### Curriculum Organizer:

It is expected that students will learn:

- The different classes of BC Driver’s Licenses
- The steps to obtain a Commercial Driver’s License and Air Brake Endorsement/Heavy Trailer Endorsement
- How to identify which vehicles require an Air-Brake Endorsed Driver’s License

### Prescribed Learning Outcomes

It is expected Students will:

1. Learn the different license classes
2. Have knowledge of the medical and vision requirements
3. Learn how to apply for an air brake endorsement
4. Learn how to apply for a class 1, 2, 3, or 4 driver’s license
5. Learn how to prepare for knowledge and road tests
6. Learn the requirements of a road test and suitable road test vehicles
7. Training programs:
  - Content
  - Code of Ethics
  - Program Regulations

### Instructional Component

- Direct instruction
- Group instruction
- Group work
- Modelling
- Inquiry
- Guest speakers
- Field work
- Collaborative learning
- Practical training
- Analysis

### Assessment Component

The assessment component will be based on performance standards from each unit. The emphasis will be on formative assessment with summative assessment to be weighted less.

Occupation and Training - 40%

Basic Driving Skills - 20%

Truck Systems - 30%

Obtaining a License - 10%

Although 50% is a passing grade for high school credit, entrance to the Commercial Truck Driver Program will require 70% and successful screening.



## Assessment Tools

- Quizzes
- Tests
- Self-assessment and evaluation
- Checklists
- Peer assessment and evaluation
- Projects
- Practical evaluations
- Teacher anecdotal records

## Learning Resources

1. Quebec Transportation Association (QTA) - Commercial Transport Curriculum.
2. QTA Vocational Training Program – Trucking.
3. QTA Practice Portfolio 2013-2014 – Trucking.
4. Canadian Trucking Human Resources Council (CTHRC) National Occupational Standards - Professional Driver (2003).
5. ICBC Driving Commercial Vehicles - A Guide for Professional Drivers.
6. Canadian Trucking Human Resources Council (CTHRC) Professional Driver Occupational Standards-Entry Level Professional Driver.
7. Industry Training Authority (ITA)/BCTA Professional Truck Driver Program Outline.
8. HRSDC Truck Driver Essential Skill Profile Description.
9. Trucking in BC: An illustrated History by Daniel Francis.
10. Get your career on the road – DVD.
11. The BC Trucking Industry: Proudly Serving BC...and You - BCTA.
12. Curbing Distracted Driving - Teens and Trucks DVD.
13. Defeating Distracted Driving DVD.
14. Third Choice-DVD produced by the BC Business Council (BCBC) - Book and interactive 4-hour DVD that examines non-university careers. Provides information on more than 100 occupations. Include information on the Transportation industry and specifically about the trucking industry.
15. Incident investigations by the Trucking Safety Council of BC
16. Websites
  - <http://www.truckingcareers.ca/en>
  - <http://www.transpocity.ca/>
  - <http://www.getyourcareerontheroad.com/>
  - <http://www.workbc.ca/Careers/Career-Profiles-Results.aspx?repeatSearch=true>