



Competency 2

Characteristics of the equipment

Lesson objective(s):

- To understand the elements of the competency
- To recognize the major truck brands used
- To associate the different types of vehicles with the category of goods transported

Statement of the Competency: To identify the possible systems that characterize semitrailers.

Introduction of all elements of the competency 2

1. Identify the features of a truck.
2. Learn about the capacities of the engine unit.
3. Select techniques for using the power transmission system.
4. Select techniques for optimizing the performance of the air brake system.
5. Learn about the capacities and limits of the suspension and steering systems and the wheels.

Description:

This practical knowledge module consists in verifying if you can figure out the features of the vehicle you will be driving for the first time. You need to take them into account so as to optimize the systems' performance and solve potential problems.

Evaluation :

The evaluation is in the form of a questionnaire.

From the technical data sheets of the systems of a semi-trailer truck, you will have to recognize the capacities and the limits of the various systems according to their specifications.

From scenarios, you will need to indicate how best to use the systems and identify potential problems and actions to take.

The duration of the evaluation is two hours.

It is essential that you make connections between the notions seen in class and those treated in practice.
You are responsible for your learning. You must notify the teacher of your progress.
The success of your journey depends on the interest and involvement you will put into it.

Terminology of heavy vehicles

Heavy Vehicles: Vehicles with a gross vehicle weight rating (GVWR, *PNBV* in French) of 4,500 kg or more.

GVWR is defined as the weight of a vehicle, to which is added the maximum load that it can carry, according to the manufacturer's instructions.

Classes of trucks: Trucks are classified according to their gross vehicle weight (GVWR)

Class 3	4 536 kg	to	6 350 kg
Class 4	6 351 kg	to	7 257 kg
Class 5	7 258 kg	to	8 845 kg
Class 6	8 846 kg	to	11 793 kg
Class 7	11,794 kg	to	14,969 kg
Class 8	14,969 kg	and over	

Truck Brands: In North America, there are seven manufacturers of class 7 and class 8 trucks.



Freightliner, Western Star and Sterling (closed business in 2008) are branches of Daimler.



Peterbilt and Kenworth are branches of Paccar.



Volvo truck and Mack are separate companies of the AB Volvo group.

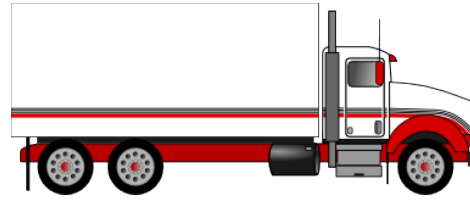
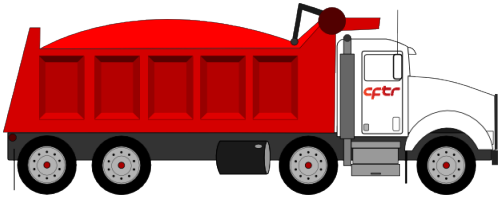


Navistar is the manufacturer of International brand.

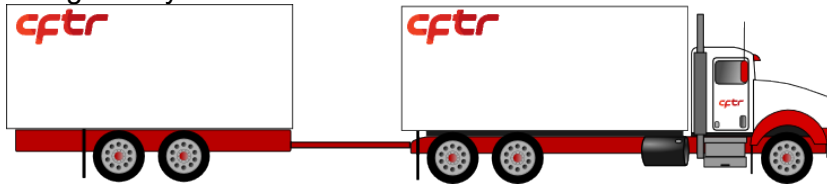
Types of trucks and semitrailers

Straight body truck

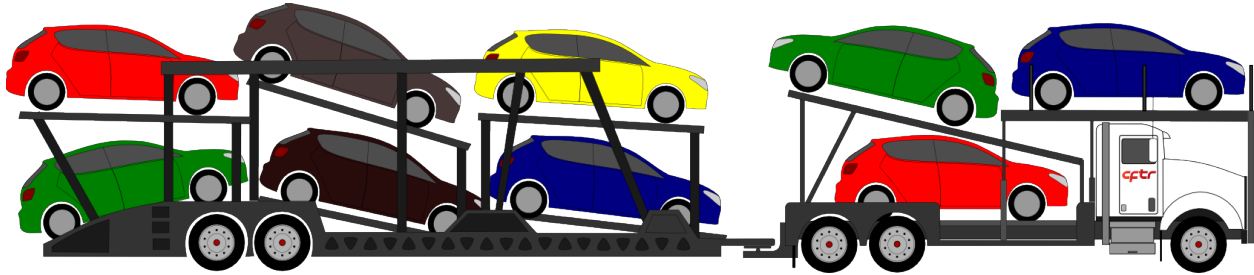
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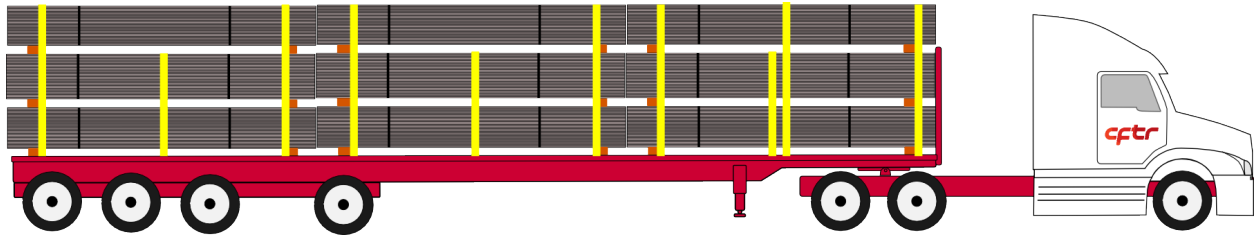
Straight body and trailer



Car hauler



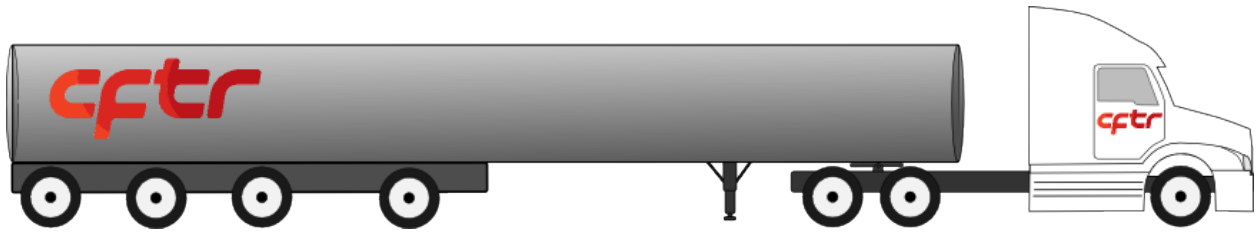
Flatbed



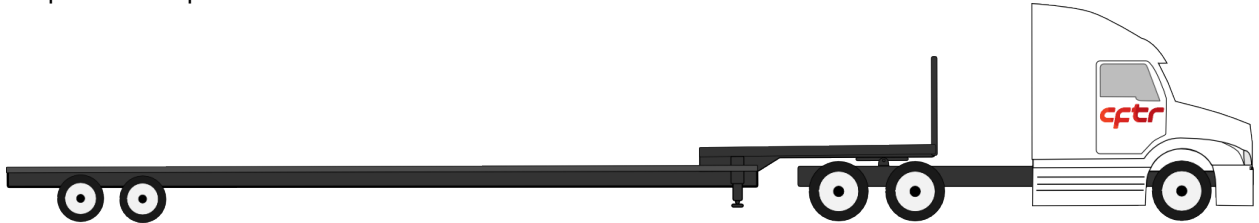
Lowboy



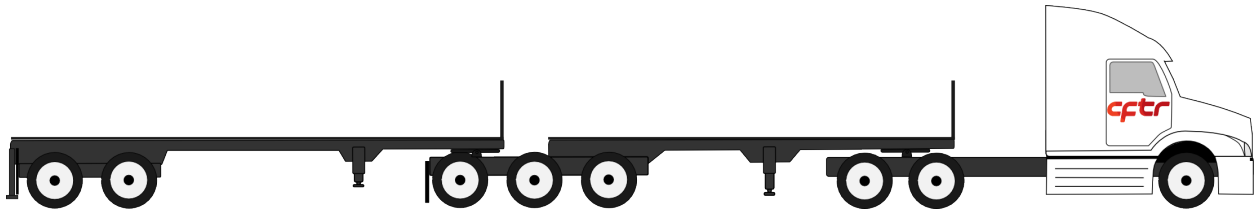
Tanker



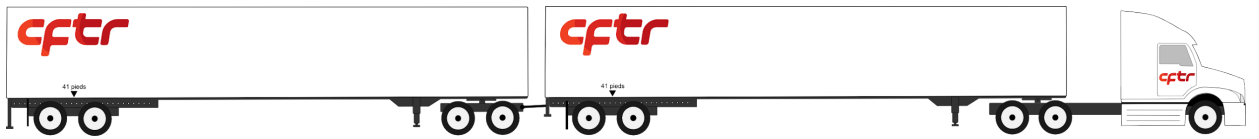
Drop deck / Step deck



B-train



Long Combination Vehicle



Converter Dolly

