

CASE STUDIES CPI TRANSPORT OF GOODS

You are employed as a driver by a road transport operator and you are carrying out a transport of goods for hire or reward from Suceava (RO) to Milan (IT). The journey is carried out with a tractor and a semi-trailer, used by the transport operator under a rental contract. The goods are to be picked up from Vatra Dornei (RO).

1. You leave from Vatra Dornei on Thursday, after a daily rest period and the program is as follows:

From 5.00 a.m. to 7.00 a.m. driving from Suceava to Vatra Dornei;

From 7.00 a.m. to 13.00 loading of goods and 1 hour break before departure;

At 13.00 - departure for Milan.

How many hours can you drive on Thursday, having in view that, this week you had 3 daily rest periods reduced to 9 hours. **Justify your answer** in the light of the regulations regarding driving periods, rest periods and breaks for drivers.

2. The tractor is equipped with a digital tachograph. Indicate which type of report represents the following combination of icons: **24h Print 24h UU**

3. During a journey you are stopped for a check and on this occasion the data recorded on the tachograph card is analyzed for two consecutive weeks, and here is what was found:

- For the first week: the weekly driving time = 59 hours and a total of weekly work of 65 hours;
- For the second week: weekly driving time = 57 hours.

How many infringements of the regulations in force have been found? Specify what are these related to the legal provisions.

4. After returning from Milan, you leave the tractor with the semi-trailer to be unloaded, and you go to the company headquarters where you complete the formalities related to the journey, you receive a safety training and then you go home to rest, returning to the vehicle the next day. How and with what do you record these periods of time on the tachograph card?

As a driver employed by a company that carries out road transport of goods **in own account** you are designated to carry out a journey from Pitești (RO) to Mediaș (RO) with a tractor and a semi-trailer used by the company under a rental contract.

5. Before leaving, you prepare the documents necessary for the transport. Indicate/list **4 (four)** documents that you must ensure to have on board of the vehicle, **except for:** the document of identity, passport, driving license, registration certificates of the vehicles, tachograph diagrams (charts), tachograph card, tachograph verification proof, vignette and RCA insurance.

6. The departure from Pitești takes place at 8:00 a.m. The distance between Pitești and Alba Iulia (RO) is 250 km and the average speed is 50 km/h. When can you arrive in Alba Iulia, sooner, while respecting the regulations regarding driving periods, rest periods and breaks for drivers? **Justify your answer.**

7. From Pitești, you drive to Sibiu (RO) on DN 7 national road where the maximum permitted weight is as follows: single non-powered axle = 8 tons; single powered axle = 9 tons; triple semi-trailer axle = 20 tons, maximum total mass/weight of the vehicle assembly = 40 tons.

You are stopped for a roadside check by ISCTR inspectors and the weighing results found are as follows: on the front axle of the tractor unit = 8 tons; on the rear axle of the tractor unit = 12 tons; on the triple axle of the semi-trailer = 23 tons.

How many maximum permissible weights have been exceeded and what are they? How are the infringements sanctioned and under what conditions could be continued the journey?

8. The day after arriving in Alba Iulia you leave for a journey to France. In Hungary you discover that you have lost your tachograph card. The tractor unit is equipped with a smart tachograph. What are your obligations in this case and what do you need to present during a roadside check?

You are employed as a driver for a road transport operator that carries out road transport of goods for hire or reward in national and international traffic too. Your employer designates you to make a journey from Suceava (RO) to Milan (IT).

9. You know that not adapting the speed is one of the main causes of road accidents. Indicate/list **4 (four)** elements/factors according to whom you should adapt your speed.

10. Economic and ecological driving requires the rational use of the vehicle's transmission. Indicate/list the components of the chain for transmitting engine torque from the engine to the wheels in a 4x2 four-wheel drive freight vehicle.

11. You are a new employee of a transport operator who has assigned you a truck. When you take over the vehicle, you find that you need to replace 2 of the tyres that are worn beyond the permissible limit. For this purpose, the company manager issues you 2 tyres marked 255/70 R22. What does the number 255 in the marking represent and in what units of measurement is indicated?

You are employed as a driver by a road transport operator who designates you to carry out a transport of goods from Sibiu (RO) to Budapest (HU).

12. The truck is equipped with a differential lock system. Specify the role of this system and how it works.

13. The transport manager has instructed you that speeding or inappropriate speed is a major cause of traffic accidents. He has also instructed you that there are factors/situations in which a driver may be tempted to drive at an inappropriate speed or over the permitted limit. Indicate/list **3 (three)** such factors/situations.

14. During a journey you discover that you have a flat tyre. Indicate/list at least **5 (five)** protective measures that you must follow when changing a tyre, in the correct order they must be applied, after pulling out the vehicle from the road, *without the installation of warning/reflective triangles*.

15. The transport manager recommended you to drive in a way that will extend the life of the systems and of the equipment of the vehicle. In this context, indicate **(3 three)** ways related to driving style through which you may increase the operating life of the braking system.

16. When setting off on a journey, the person designated to permanently and effectively run the transport activity will give you instructions to adopt an economic and ecological driving style. Indicate/list **5 (five)** elements necessary for adapting an economic and ecological driving style.

17. You know that while driving you must drive at a speed that is suitable and allows you to stop safely. Indicate/list **5 (five)** factors that are not related to the driver and negatively influence the braking distance.

You are employed as a driver by a road transport operator who designates you to carry out a transport of goods from Sibiu (RO) to Barcelona (ES).

18. Indicate/list **5 (five)** checks you should perform when inspecting the engine compartment before setting off on the journey;

19. You know that stress may affect the physical and mental state of the driver with negative economic and social impacts and also on road safety. Indicate/list **3 (three)** possibilities/solutions **regarding the planning of the activity, driving conditions and interaction with other traffic participants** that may reduce the stress of drivers. The question does not refer to: the diet, physical exercises and avoidance of alcohol or substances with hallucinogenic effects.

20. When you start on your journey, the transport manager has given you instructions to adopt an eco-friendly driving style (EcoDriving). Indicate/list **3 (three)** advantages of an ecological driving.

You are employed as a driver by a road transport operator that carries out road transport of goods for hire or reward in international traffic. The employer assigns you to carry out a freight transport from Bucharest to Prague. The journey is carried out with a vehicle assembly consisting of a tractor and a semi-trailer used by the transport operator under a leasing contract. Departure takes place on Monday, after a weekly rest period.

21. As a driver, you participate in loading the goods. Specify **3 (three)** constructive mass characteristics (mass data indicated by the manufacturer) of the vehicle, which you must take into consideration when placing/distributing the load on the platform of the goods transport vehicle.

22. Indicate **4 (four)** documents that you must be sure you have on board the vehicle during your journey from Bucharest to Prague, *excepting: identity document, passport, driving license, certificates of registration of*

the vehicle, tachograph charts, tachograph card, tachograph verification proof, vignette and RCA insurance.

23. On Monday you go to work after a weekly rest period. Your schedule will be as follows:

7.00 - 8.00 technical checks and verifying the mandatory documents to be held on board;

8.00 - 9.00 travel to the place of loading;

9.00 - 13.00 loading the goods;

13.00 - 15.00 break and

15.00 start the journey.

How many hours you may drive after starting the journey? Specify the period of time during which you will take your first daily rest period. Justify your answer.

24. After the Prague journey, you and a colleague take a journey to London. The tractor unit is equipped with a digital tachograph and is driven by two drivers. What type of activity is recorded on the card of the person who is not driving while the tractor unit is being driven by his colleague?

As a driver employed by a transport operator in Huedin (RO), you carry out freight transport for hire and reward on the Bucharest – Huedin route.

25. You are driving a 4 x 2 truck. How many axles does it have and what is their role?

26. You leave to Huedin (RO) on Monday after a weekly rest period. The departure time for the journey is 8:00. The distance between Bucharest and Huedin is 500 km and the average speed is 50 km per hour of driving. Calculate the time at which you can arrive in Huedin, respecting the regulations in force regarding driving periods, rest periods and breaks for drivers. Justify the answer.

27. During a road side check carried out by ISCTR inspectors, it is found that you are transporting goods with a vehicle for which a certified copy of the Community license is not held. Please indicate the measures by which this infringement is sanctioned.

28. In Huedin, you leave the truck to be unloaded by someone else, remove the tachograph card (driver card) from the equipment, go to the company headquarters where you complete the formalities related to the completion of the journey and then you go home to rest, returning to the vehicle the next day. When and how do you record all these periods of time (formalities for the completion of the journey and rest) on the tachograph card (driver card)?

You are employed by a road transport operator and, as a driver, you carry out road transport of goods for hire or reward in international traffic with a tractor unit and a semi-trailer.


29. You know that while driving you must drive in such a way that you can stop safely. Indicate **5 (five)** factors on which the braking distance depends, **except for:** tyre wear/pressure and meteorological conditions.

30. Stopping safely also depends on the driver's reaction time. Specify the meaning of the expression **“driver reaction time”**.

31. The tractor you are driving is equipped with Adaptive Cruise Control (ACC). Indicate **2 (two)** advantages of this system.

32. You are a new employee of a transport operator who has assigned you a truck. When you take over, you find that you need to replace 2 of the tyres that are beyond the permissible limit. For this purpose, the company manager offers you 2 new tyres marked 295/60 R22. What does the number 60 in the mark represent and in what unit of measurement is it expressed?

33. You are driving in a mountain area where you encounter sections of road with long slopes where you frequently use the retarder. Your tractor is equipped with a compact hydraulic retarder mounted on the gearbox. Why can there be a decrease in braking effect during continuous and prolonged use, compared to the maximum braking effect values indicated by the manufacturer?

34. The following combination of pictograms appears on an activity report printed from the digital tachograph memory: . What does this mean?

35. You are employed as a driver for a road transport operator and drive a combination of vehicles consisting of a tractor and a semi-trailer. Before starting the journey, you couple the tractor with the semi-trailer.

Indicate **3 (three)** checks that you must carry out after coupling the tractor with the semi-trailer.

36. The driver's mental state influences driving ability. Indicate **2 (two)** negative effects of family problems on the driver.

37. For reasons of road safety and as an easy and inexpensive way to extend the life of your tyres, it is recommended to check and maintain them systematically. Indicate **4 (four)** checks that should be part of a tyres inspection checklist.

You are employed as a driver by a road transport operator who carries out transport of goods for hire or reward in international traffic.

38. As part of your preparations for the journey, check your vehicle's minimum safety equipment. What does it contain? Indicate **5 (five)** elements.

39. You know that stress can affect the physical and mental state of the driver with negative effects on road safety, economic and social. Indicate **3 (three)** possibilities/solutions, related to activity planning and driving behavior, that can reduce driver stress, excluding diet, exercise, alcohol consumption or substances with hallucinogenic effects.

40. Aggressive driving behavior is very dangerous and costly. Indicate **3 (three)** negative consequences of an aggressive driving style.

You are employed as a driver by a road transport operator that carries out road transport of goods for hire or reward in international traffic. The employer assigns you to carry out a freight transport in a crew with a colleague from Bucharest to Dortmund. The journey is carried out with a vehicle assembly consisting of a tractor and a semi-trailer used by the transport operator under a leasing contract. The departure takes place on Monday, after a weekly rest period.


41. The tractor unit is equipped with a digital tachograph. On what occasions do you need to enter the location using the digital tachograph's manual data entry function?

42. Indicate **4 (four)** documents that you must ensure you have on board of the vehicle during the journey Bucharest - Dortmund, *except for: the document of identity, passport, driving license, registration certificates of the vehicles, tachograph diagrams (charts), tachograph card, tachograph verification proof, vignette and RCA insurance.*

43. On Monday you go to work after a weekly rest period. Your schedule will be as follows:

- 6.00 - 7.00 technical checks;
- 8.00 - 11.00 travel to the place of loading;
- 11.00 - 14.00 loading of goods;
- 14.00 - 16.00 break;
- 16.00 - start of the journey.

How many hours you may drive after starting the journey? Specify the period of time during which you will take your first daily rest period. **Justify your answer.**

44. The tractor is equipped with a digital tachograph. Indicate which type of report the following combination of pictograms, **24h**  **Print 24h card** represents:

As a driver employed by a transport operator in Bucharest, you drive different types of commercial vehicles.

45. The departure is scheduled on Monday when you come to work after a weekly rest period. The schedule will be as follows:

- 7.00 - 9.00 travel with the vehicle assembly to the place of loading;
- 9.00 - 11.00 loading the goods;
- 11.00 - starting the journey.

How many hours you may drive after leaving on Monday and what time you must stop for a rest period considering that you do not carry out any other activities during the day? **Justify the answer.**

46. What do you need to check as a driver, according to the CMR Convention, upon receipt of the goods you are going to transport?

47. During a road side check, major and dangerous technical defects are found on the tyres of the truck you are driving. What are the penalties applicable in this case?

48. What are the periods of time/activities that you may select using the tachograph selector when the vehicle is stationary?

You are employed by a road transport operator and, as a driver, you carry out road transport of goods for hire or reward in international traffic with a tractor unit and a semi-trailer.

49. You have been trained that as a driver you must ensure rational operation of the engine and transmission. How do you make the engine act as a brake and how can you increase the braking force achieved?

50. Economic and ecological driving requires the rational use of the vehicle's transmission. Indicate the components of the chain for transmitting engine torque from the engine to the rear-wheels in a 4x2 four-wheel drive freight vehicle.

51. As a driver, you participate in loading of the goods. Specify **3 (three)** constructive mass characteristics (mass data indicated by the manufacturer) of the vehicle, which you must take into consideration when placing/distributing the load on the platform of the vehicle.

52. For reasons of road safety and as an easy and inexpensive way to extend the life of your tyres, it is recommended to check and maintain them in a good condition. Indicate **4 (four)** checks that should be part of a tyre inspection checklist.

53. You are a new employee at a transport operator who has assigned you a truck. When you take over, you find that you need to replace 2 of the tyres that are beyond the permissible limit. For this purpose, the company manager issues you 2 new tyres marked 315/70 R22.5. What does the number 22.5 in the mark represent and in what unit of measurement is it expressed?

54. When you were employed, the transport manager gave you instructions to adopt an eco-friendly driving style (EcoDriving). Indicate **3 (three)** advantages of ecological driving (Eco-driving).

You are employed as a driver by a road transport operator who assigns you to carry out goods transport from Bucharest to Paris.

55. You know that not adapting your speed is one of the main causes of road accidents. Indicate **4 (four)** elements/factors according to which you should adapt the speed of the truck.

56. Indicate **3 (three)** factors related to the driver that influence the driver's reaction time, *except for an incorrect position at the wheel, lack of attention, consumption of alcohol, medications or substances that modify behaviour (drugs)*.

57. As part of your preparations for the journey, you will determine the itinerary to travel on. Indicate at least **3 (three)** elements you must take into consideration.

58. You are employed as a driver for a road transport operator and drive a combination of vehicles consisting of a tractor and a semi-trailer. Before starting the journey, you couple the tractor with the semi-trailer. Indicate **3 (three)** checks that you must carry out after coupling the tractor with the semi-trailer.

59. You know that fatigue is one of the main causes of road accidents. Indicate **4 (four)** effects of fatigue on the human body that may lead to road events.

60. You will be driving after sunset. Indicate at least **1 (one)** aspect that you need to consider regarding the lighting and signalling system of the vehicle assembly. **Justify the answer.**

The employer assigns you to carry out a freight transport for hire or reward on the Bucharest–Oradea (RO). The journey is carried out with a truck with a maximum authorized total weight of 18 tons, used under a rental contract.

61. You leave Bucharest on Thursday, after a daily rest period, the schedule is as follows:

7:00 a.m. - 1:00 p.m. loading goods without moving the vehicle, preparing documents and a one-hour lunch break;
1:00 p.m.- departure.

How many more hours may you drive on Thursday, given that this week you have had 3 reduced daily rest periods to 9 hours. Justify your answer in light of the regulation laying down rules on driving times, breaks and rest periods for drivers.

62. List **4 (four)** documents that you must have on board the truck during the transport of goods for hire or reward from Bucharest to Oradea, **except for:** *the document of identity, passport, driving license, registration certificates of the vehicles, tachograph diagrams (charts), tachograph card, tachograph verification proof, vignette and RCA insurance.* RCA.

63. You are stopped in traffic by ISCTR inspectors for a roadside check. On this occasion, the data recorded in the memory of the tachograph card is analyzed and it is found the following:

- in the first week: weekly driving period: 40 hours and total working time 65 hours;
- in the second week: weekly driving period: 58 hours.

How many infringements of the regulation in force have inspectors found? Specify what these are.

64. After the journey to Oradea (RO), you take a delivery for a transport between Bucharest and Urziceni (RO). During a roadside check, the inspectors found that the brake discs on the front axle wheels show excessive wear and cracks which represents a dangerous technical defect according to the regulations in force. Indicate what measures are applied to sanction the infringements found.

As a driver employed by a company that carry out transport of goods for hire or reward, you are assigned to carry out such transport from Rm. Vâlcea (RO) to Satu Mare (RO) with a tractor and a semi-trailer used by the company on the basis of a rental contract.

65. You are using polyester webbings to secure the cargo. Indicate at least **3 (three)** conditions/requirements that the webbings must meet before use.

66. The tractor is equipped with a digital tachograph. Please indicate what type of report represents the following combination of icons: **24h AT Print 24h UU**

67. You arrive in Sebeş (RO) after 3 hours of driving from Rm. Vâlcea (RO), take a 60-minute break and continue on. After how many hours of driving at most do you have to take a break and what is the minimum duration of it?

68. You take your daily rest period in Cluj-Napoca (RO) and the next day you leave for Satu-Mare. After arriving in Satu Mare, you take a truck for a journey from Satu Mare to Cavnic (RO) on the same day. What obligations do you have in terms of using the tachograph chart (diagram)? Both motor vehicles are equipped with an analog tachograph.

You are employed by a road transport operator and, as a driver, you carry out road transport of goods for hire or reward in international traffic with a tractor and a semi-trailer.

69. You have been trained to have a certain attitude in traffic in order to avoid road accidents. Indicate **3 (three)** elements related to attitude/behavior regarding interaction with other road users that contribute to reducing the number of accidents.

70. You are driving in a mountain area with many hills (ramps) and heavy traffic that requires frequent stops and starts on the hill. The tractor is equipped with a hill-start assist control (Hill Holder). Indicate the role of this system and **2 (two)** advantages of using it.

71. In your training courses you were taught to preventive driving. Indicate **3 (three)** components of preventive driving.

72. You drive a truck. Before to leave in a journey, you perform the technical checks. Indicate/list **5 (five)** checks you perform at the exterior of the truck's cabin and its equipment.

73. Approaching corners at an inappropriate speed may lead to skidding or even overturning due to the action of centrifugal force. Specify the relationship between the centrifugal force and the speed, as well as how much centrifugal force increases when the speed is doubled.

74. The transport manager recommends you to drive in a way that will extend the life of the vehicle assembly's systems and equipment. In this context, indicate **3 (three)** ways in which you

can increase the life of the service brake components.

75. You are employed as a driver for a road transport operator and drive a combination of vehicles consisting of a tractor and a semi-trailer. Before setting off on a journey, you couple the tractor with the semi-trailer. Indicate **3 (three)** checks that you must carry out after coupling the tractor with the semi-trailer.

76. The long-term effects of occupational stress on drivers are complex and costly for both the company and for the drivers and their families. Indicate **3 (three)** similar effects.

77. The lack of the experience is an important factor that may lead to accidents with serious or very serious consequences. How many times more inexperienced drivers die than experienced ones?

You are employed as a driver by a road transport operator who transport goods in international traffic for hire or reward.

78. As part of your preparations for the journey, you check your vehicle minimum safety equipment. What does it contain? Indicate **5 (five)** elements of the equipment.

79. You know that stress may affect the physical and mental state of the driver with negative economic, social and road safety effects. Indicate **3 (three)** possibilities/solutions that may reduce stress for drivers, *except for: diet, exercise, consumption of alcohol or substances with hallucinogenic effects.*

80. You know that fatigue is one of the main causes of road accidents. Indicate **4 (four)** effects of fatigue on the human body that may lead to the occurrence of road events.

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