Structuring of Teaching

Leonardo da Vinci

Training: Driver Training – module Shunting					
Target group: Train Drivers			**Material:** • • •		
Art. No.	**Topics and sub-topics**	**Content and trainer notes**	**Methods**	**Media**	**Duration**
•	**Shunting**				**1440 min**
1	**Accident prevention when shunting**	Participants are to be familiar with accident hazards specifically associated with shunting Explain to the participant how to act to avoid accidents during shunting	Lecture Oral teaching Group work Exploration on site	Handbook, slides and rule- book	
2.	**Shunting terminology**	Participant is to be able to explain shunting terms.	Lecture Oral teaching Group work Exploration on site	Handbook, slides and rule-book	
2.1	Vehicle movements during shunting			Handbook, slides and rule-book	
2.1.1	Compositions of vehicle groups	What conclusions are to be drawn if the driver is not at the head of the shunting move?			
2.2	Deployment of personnel in traction units				
2.3	Shunter				
3	**Persons involved in shunting movements and their roles**	Participants are to describe the duties of the parties involved. Participants are to explain the interactions between the parties involved.	Lecture Oral teaching Group work Exploration on site	Handbook, slides and rule-book	

Structuring of Teaching

Art. No.	Topics and sub-topics	Content and trainer notes	Methods	Media	Duration
4	**Communication during shunting**	Participants are trained in performing the different communication procedures	Lecture Oral teaching Group work Exploration on site Role-play	Handbook, slides and rule-book	
4.1	Importance of communication	Participants are to be able to explain the importance of communicating precisely.			
4.2	Means of communication	Talk about the importance of the subject-matter communicated citing reasons.			
4.2.1	Verbal communication by direct address or telephone				
4.2.2	Communication by radio				
4.2.3	Controlling movements by visual and audible signals				
4.2.4	Controlling movements by radio				
5	**Local shunting rules** **Example of rules specified in the SNCB local guidelines**	Participants are to elucidate why local shunting rules are adopted.	Lecture Oral teaching Group work Exploration on site	Handbook, slides and rule-book	
6	**Operation of switches and track locks during shunting**	Participants are to explain how points and track locks are operated	Lecture Oral teaching Group work Exploration on site	Handbook, slides and rule-book	
6.1	Setting locally operated switches				
6.1.1	Who sets switches				
6.1.2	Markings on locally operated switches				
6.2	Local control of switches				

Structuring of Teaching

Art. No.	Topics and sub-topics	Content and trainer notes	Methods	Media	Duration
7	**Preparing and carrying out shunting movements**		Lecture Oral teaching Group work Exploration on site	Handbook, slides and rule-book	
7.1	Communication between parties involved				
7.1.1	Parties involved	Participants are to be familiar with the parties involved in a shunting move.			
7.1.2	Responsibility of train driver	Participants are to realise that the driver is responsible for performing the shunting move.			
7.1.3	Means of communication				
7.2	Readiness to move, permission to move and movement authority				
7.2.1	Determining readiness to move	Participants are to be able to establish the readiness to move of rolling stock.			
7.2.2	Permission to move authorised by shunting signals	Participants are to describe how a movement authority can be issued using signals			
7.2.3	Movement authority	Participants are to describe how a movement authority can be issued.			
8	**Performing a shunting movement**		Lecture Oral teaching Group work Exploration on site	Handbook, slides and rule-book	
8.1	Shunting speed	Participants are to be able to adopt the permissible shunting speeds.			
8.2	Watching the track	Participants are to be able to explaining the meaning of conducting a movement “on sight”.			
8.3	Negotiating crossings				
8.3.1	Negotiating crossings – general information				
8.3.2	Securing a crossing				

Structuring of Teaching

Art. No.	Topics and sub-topics	Content and trainer notes	Methods	Media	Duration
9	**Stopping vehicles**	Participants are to realise that adequate braking conditions in shunting operations constitute a vital safety feature in train running.	Lecture Oral teaching Group work Exploration on site	Handbook, slides and rule-book	
9.1	Adequate braking capabilities				
9.2	Braking during a shunting movement				
9.3	Braking during a shunting movement (in acc. With local SNCB guidelines)				
9.3.1	Rules specified in local guidelines				
9.3.2	Simplified brake test for shunting	Participants are to know when a simplified brake test is required for shunting and how it is to be conducted.			
10	**Stabling and immobilising vehicles**	Participants are to be able to immobilise a convoi	Lecture Oral teaching Group work Exploration on site	Handbook, slides and rule-book	
10.1	Immobilising vehicles – Basics				
10.1.1	Reasons for and purpose of immobilisation				
10.2	Vehicle immobilisation				
10.3	Local guidelines				

Structuring of Teaching

Art. No.	Topics and sub-topics	Content and trainer notes	Methods	Media	Duration
11	**Shunting on main lines**	Particular procedures are to be known by the participants	Lecture Oral teaching Group work Exploration on site	Handbook, slides and rule-book	
11.1	Prior notification of the driver				
11.1.1	Shunting on main lines				
12	**Shunting on loading sidings and in loading yards**	Particular procedures are to be known by the participants	Lecture Oral teaching Group work Exploration on site	Handbook, slides and rule-book	

Total duration	**1440 min**