



Transport of Dangerous Goods According to the ADR Agreement

Doha, October 24 2013

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IRU Academy Certified Instructor

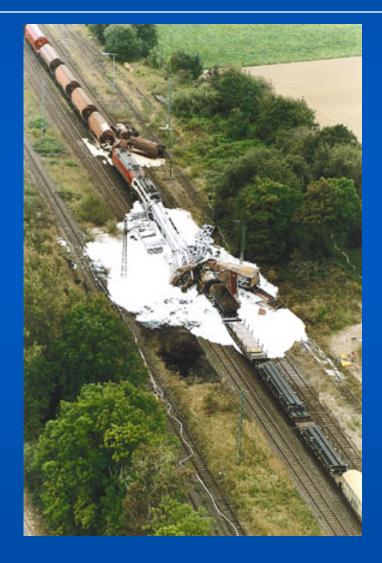


Why safety transportation standards are key











Why safety transportation standards are key









Spain Los Alfaques-1978 200 people died – 300 injured

A gas-truck explosion devastates a seaside campsite



Why safety transportation standards are key







Accident between a coach and a tank vehicle –

Langenbruck 1984

20 people died





Current practices that places the people and society at risk











Current practices that places the people and society at risk



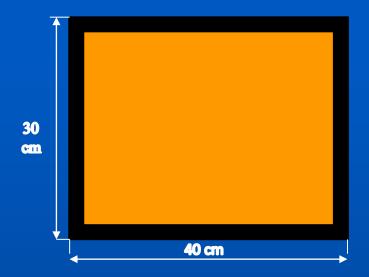




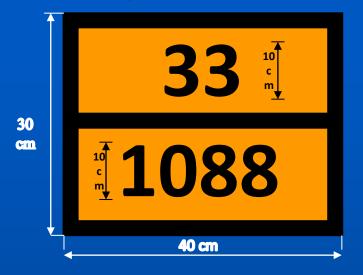




...for all vehicles (front and rear):

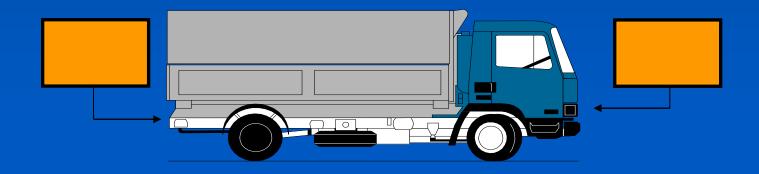


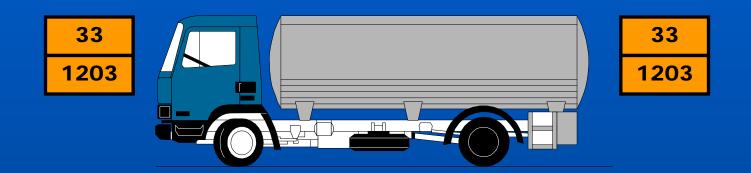
...with hazard identification number and UN number, for tank transport (both sides):





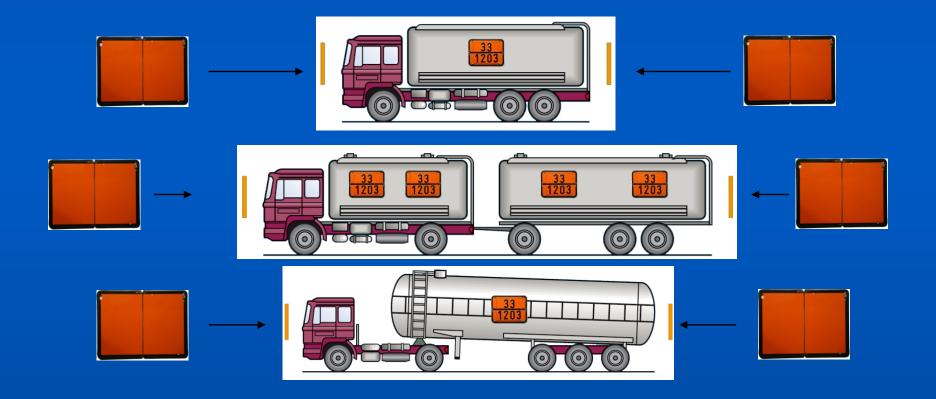






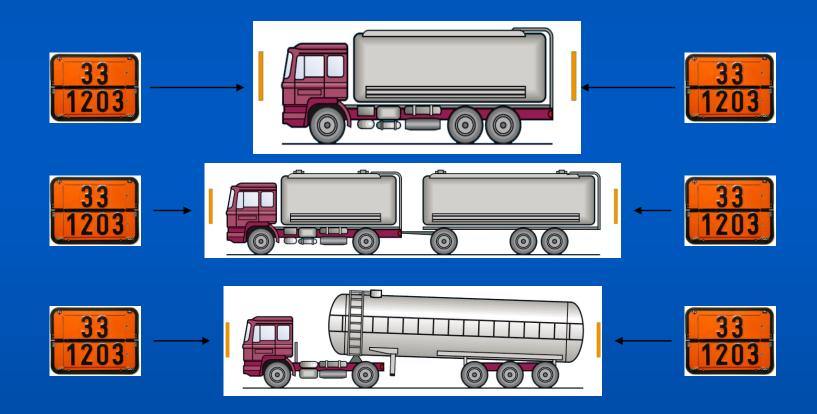














Risk Management: Identification of dangers



Placards should not be less than 250mm by 250mm



293123



Risk Management: Vehicle markings







Risk Management: Vehicle markings



Front Rear





Expectations?





What would you expect from The people that are involved in the transport of dangerous Goods?





ADR Driver duties and responsibilities



Field of activity	Tasks, skills or knowledge	
DRIVING	Drive with due regard to statutory regulations and traffic regulations relating to the transport of ADR goods (e.g., Speed limits, routing). Park the vehicle with regard to regulations.	
MAINTENANCE	 Maintain the vehicle's equipment (fire-fighting equipment, telecommunication equipment, equipment limiting speed) in accordance with general and specific requirements concerning the transport of ADR goods Check that equipment is on board the vehicle before departure. Carry out a daily check on the state of the vehicle. Ensure that the vehicle is correctly cleared. 	



Driver duties and responsibilities



	 Recognise correct labelling and marking of parcels, containers and vehicles
	 Recognise typical dangerous goods packaging
	 Apply regulations concerning the compatibility of transported materials and the incompatibility of batches.
	 Check that the goods are transported in an appropriate type of vehicle
	 Ensure that the vehicle is correctly cleaned
	 Respect the specific requirements concerning stowage and steadying of goods
COLLECTION/	Before commencing loading, check the adequacy between
DELIVERY	volume available and volumes to be transferred
DELITERI	 Participate in loading and unloading operations in
	compliance with existing procedures.
	 Select the appropriate means of handling as required
	 Check the loading instructions
	Uncouple the vehicle and close slippered outlets, etc React appropriately to exacific hard an delivery (places)
	 React appropriately to specific bans on delivery (places, dates and times)
	 Recognise the general classification and the characteristics
	of hazardous goods
	 Identify the danger class to which the products belong



Driver duties and responsibilities



INFORMATION / COMMUNICATION	 Check that all necessary IT tools (mobile phone, electronic data base system) are on board Check that all necessary IT tools (mobile phone, electronic data base system) are working Check that the required documents are on board Check that the transport documents are complete (identification of products, safety requirements) 	
	 In the absence of transport documents, or if these are not complete, obtain information from the appropriate source Place the transport documents so that they are readily available 	
SAFETY/ QUALITY	Identify the risks of the transport of hazardous goods and safety requirements detailed in written emergency instructions Show ability to follow security regulations and implement emergency procedures	
	 Check the availability of individual protective equipment such as clothes, breathing equipment and that it is adapted to the risks according to the goods transported Respect the safety requirements defined by the shipper, the consignee or the haulier 	
	 Intervene efficiently and appropriately in case of vehicle breakdown or incident involving the load (for example, help prevent contamination in the case of spillage) 	
	 In the case of accident intervene to protect self and surroundings Recognise the incompatibility of certain substances Identify safety equipment required for ADR transport 	



Expectations?





How can drivers, carriers, loaders achieve the level of competence to deliver safe and efficient transport?



IRU Academy Dangerous Goods (ADR) Programme







Dangerous Goods (ADR) Programme



ADR Training Requirements

8.2.1.1 Drivers of vehicles carrying dangerous goods shall hold a certificate issued by the competent authority stating that they have participated in a training course and passed an examination on the particular requirements that have to be met during carriage of dangerous goods.

8.2.1.2 Drivers of vehicles carrying dangerous goods shall attend a basic training course. Training shall be given in the form of a course approved by the competent authority. Its main objectives are to make drivers aware of hazards arising in the carriage of dangerous goods and to give them basic information indispensable for minimizing the likelihood of an incident taking place and, if it does, to enable them to take measures which may prove necessary for their own safety and that of the public and the environment, for limiting the effects of an incident.



IRU Academy Dangerous Goods (ADR) Programme



✓ ADR Basic training course for Drivers



- ✓ ADR Specialisation training course for carriage in tanks
- ✓ ADR training course for Loaders
- ✓ Dangerous Goods Safety Adviser Programme

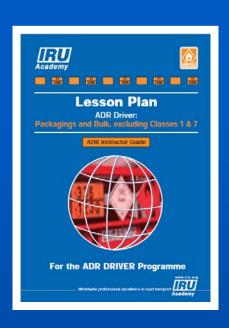




IRU Academy Dangerous Goods (ADR) Programme - Structure



ADR Driver:
Packaging and Bulk,
excluding Classes 1 & 7



No.	Title	Length (Minutes)
0	Opening of the course	15
1	Introduction	45
2	Shipping terminology / procedures	90
3	Experimental presentation	135
4	Vehicle Markings	60
5	Fire-fighting "theory"	45
6	Fire-fighting "group practice"	100
7	First aid	45
8	Provisions for the construction of vehicles and equipment	45
9	Transport provisions	75
10	Stowage	45
11	Exemptions	45
12	Behaviour in the event of an accident	45
13	Carriage of waste	45
	Summary	15
14	Practice	30
15	Examination	(100)
	Closing of the course	15



ADR Train the Trainer





Lesson Plans & Recap Exercises

Interactive training



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Competence



ADR visuals



Learning materials



ADR Train the Trainer





ADR Accidents

Safe Loading and Cargo Securing

Fire Fighting exercises...



... and much more

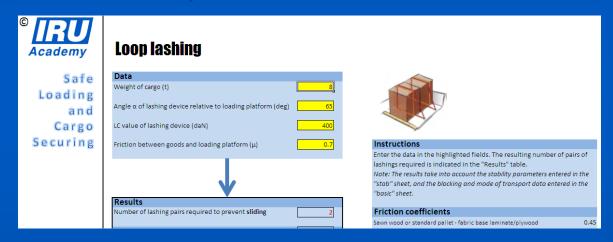




Safe Loading and Cargo Securing



Calculator: Specific and practical advices



Latest International Reference
Standard
CEN 12195-1:2010

Interactive simulation environment

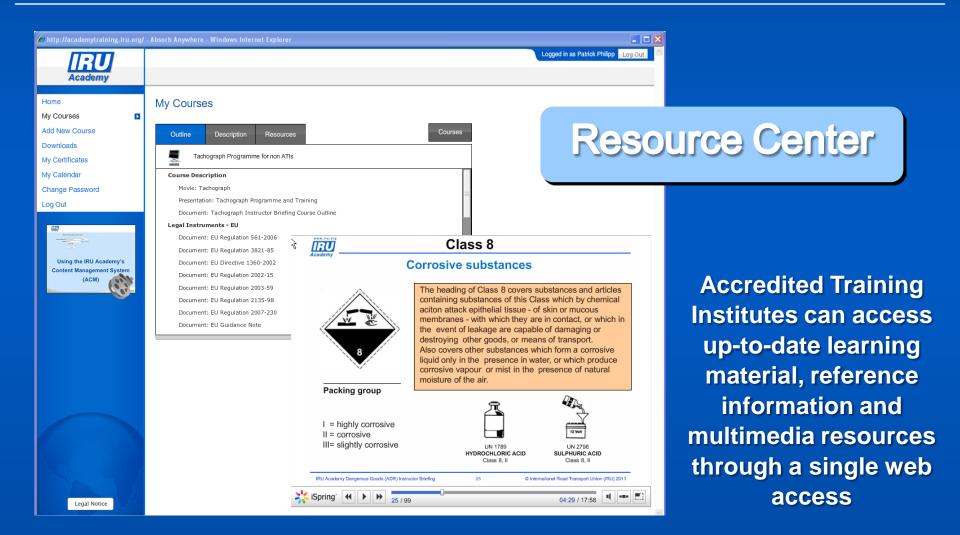






IRU Academy Content Management - Accessibility







IRU Academy Dangerous Goods (ADR) Programme



Congratulations to KTTDC, Mowasalat – who successfully delivers first of its kind ADR Training Programme in Qatar



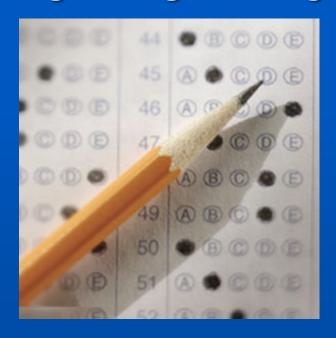
Pilot ADR Programme – April 2012



Certification of ADR Drivers



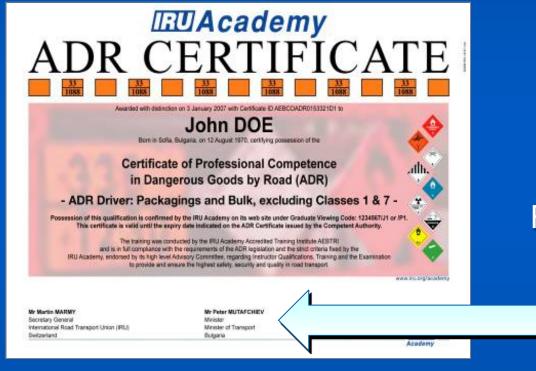
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International & Pan-Arab Recognition







Pan-Arab Certification
Recognition through the
Arab Union of Land
Transport

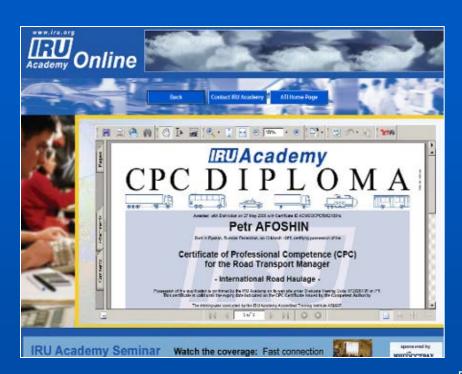
Regional Examination authority



IRU Academy Online (AOL)

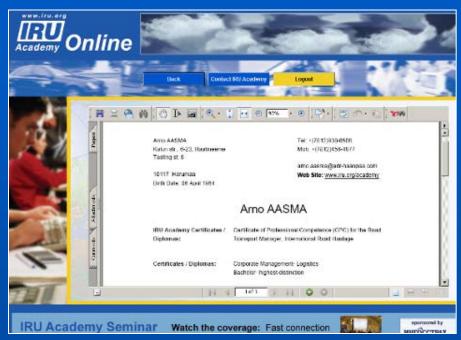






Private and secure web sites for

- IRU Academy ATI promotion
- IRU Academy graduate promotion
- Real-time credential verification







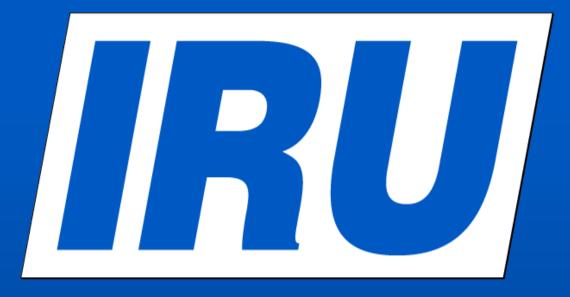








Working together for a better future



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