Transport of Dangerous Goods
According to the ADR Agreement

Doha, October 24 2013

Soren Christiansen
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
Risk Management: Identification of products transported

…for all vehicles (front and rear):

…with hazard identification number and UN number, for tank transport (both sides):
Risk Management: Identification of products transported
Risk Management: Identification of products transported
Risk Management: Identification of products transported
Placards should not be less than 250mm by 250mm
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

<table>
<thead>
<tr>
<th>Field of activity</th>
<th>Task, Skills or Knowledge</th>
</tr>
</thead>
</table>
| 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

COLLECTION / DELIVERY

- 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
- Before commencing loading, check the adequacy between volume available and volumes to be transferred
- 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 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?
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

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Length (Minutes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Opening of the course</td>
<td>15</td>
</tr>
<tr>
<td>1</td>
<td>Introduction</td>
<td>45</td>
</tr>
<tr>
<td>2</td>
<td>Shipping terminology / procedures</td>
<td>90</td>
</tr>
<tr>
<td>3</td>
<td>Experimental presentation</td>
<td>135</td>
</tr>
<tr>
<td>4</td>
<td>Vehicle Markings</td>
<td>60</td>
</tr>
<tr>
<td>5</td>
<td>Fire-fighting “theory”</td>
<td>45</td>
</tr>
<tr>
<td>6</td>
<td>Fire-fighting “group practice”</td>
<td>100</td>
</tr>
<tr>
<td>7</td>
<td>First aid</td>
<td>45</td>
</tr>
<tr>
<td>8</td>
<td>Provisions for the construction of vehicles and equipment</td>
<td>45</td>
</tr>
<tr>
<td>9</td>
<td>Transport provisions</td>
<td>75</td>
</tr>
<tr>
<td>10</td>
<td>Stowage</td>
<td>45</td>
</tr>
<tr>
<td>11</td>
<td>Exemptions</td>
<td>45</td>
</tr>
<tr>
<td>12</td>
<td>Behaviour in the event of an accident</td>
<td>45</td>
</tr>
<tr>
<td>13</td>
<td>Carriage of waste</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>Summary</td>
<td>15</td>
</tr>
<tr>
<td>14</td>
<td>Practice</td>
<td>30</td>
</tr>
<tr>
<td>15</td>
<td>Examination</td>
<td>(100)</td>
</tr>
<tr>
<td></td>
<td>Closing of the course</td>
<td>15</td>
</tr>
</tbody>
</table>
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
Accredited Training Institutes can access up-to-date learning material, reference information and multimedia resources through a single web access.
Congratulations to KTTDC, Mowasalat – who successfully delivers first of its kind ADR Training Programme in Qatar

Pilot ADR Programme – April 2012
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.
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
Stay Safe, Competitive and Compliant!
Working together for a better future since 1948