

24th June 2024
NIOSH Excellence Centre,
Bangi, Malaysia

ADR
Agreement
Concerning the
International Carriage
of Dangerous Goods
by Road



UNECE

IRU

dgdt

dangerous goods
driver training

Official Launch of ADR
Dangerous Goods Driver
Training in Malaysia

Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)

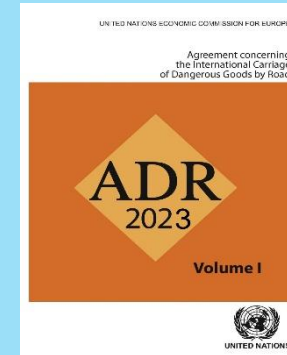
The Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) was done at Geneva on 30 September 1957 under the auspices of the United Nations Economic Commission for Europe, and it entered into force on 29 January 1968. The Agreement itself was amended by the Protocol amending article 14 (3) done at New York on 21 August 1975, which entered into force on 19 April 1985.

The Agreement itself is short and simple. The key article is the second, which says that apart from some excessively dangerous goods, other dangerous goods may be carried internationally in road vehicles subject to compliance with:

- the conditions laid down in Annex A for the goods in question, in particular as regards their packaging and labelling; and
- the conditions laid down in Annex B, in particular as regards the construction, equipment and operation of the vehicle carrying the goods in question.

Annexes A and B have been regularly amended and updated since the entry into force of ADR. Consequently, to the amendments that entered into force on 1 January 2023, a revised consolidated version has been published as document ECE/TRANS/326, Vol. I and II.

ADR provisions are implemented as regulations in the countries that are the signatory of UN Convention on the transport of dangerous goods. Malaysia is a signatory to this ADR protocol and we are the initial stages of implementing a restructured ADR under the ASEAN Protocol 9 of ASEAN Framework Agreement on Facilitation of Goods in Transit (AFAFGIT).



Structure of ADR

The provisions in the ADR are aligned with the 'UN Recommendations on the Transport of Dangerous Goods', known as the 'Model Regulations', a document that provides a framework of rules for the safe transport of dangerous goods by all modes – air, road and rail as well as sea.

The ADR includes the following chapters.

- Part 1. Introduction
- Part 2. Classification
- Part 3. The dangerous goods list (including special provisions and exemptions related to limited quantities.
- Part 4. Packing and tank provisions
- Part 5. Consignment procedures, including documentation and vehicle marking
- Part 6. Construction and testing of packagings, intermediate bulk containers (IBC), large packagings and tanks
- Part 7. Carriage, loading, unloading and handling
- Part 8. Vehicle crews, equipment, operation and documentation (including driver training)
- Part 9. Construction and approval of vehicles

The ADR regulations provide a framework for ensuring the safe and secure transportation of such goods to protect human health, the environment, and property.

ADR DGDT LAUNCHING CEREMONY

24th June 2024 NEC NIOSH Bangi

- 08.00 – 8.30 Arrival of VIPs and Guests
- 08.30-08.35 Welcome note by MC
- 08.35-08.45 Opening Remark by MPC
- 08.45-08.50 ADR Video Presentation and Message from Mr. Philipp Patrick, IRU Geneva
- 08.50-09.10 Official Launching of ADR DGDT by CICM
- 09.10 -09.15 Word of Thanks by Champion -Chemical Productivity Nexus
- 09.15-09.30 Souvenir Presentation & Photography Session
- 09.30-10.00 Light Refreshments
- 10.00 ADR Train the Trainer 2024 Session

A Warm Welcome from Us





A global network of excellence

The IRU Academy is the training arm of IRU. Through a network of over 40+ Associate Training Institutes (ATI) across the globe, IRU train and certify thousands of mobility and transport logistic professionals every year to improve safety, efficiency and sustainability. IRU's network of transport associations and operators, government agencies, vocational schools and universities guarantees the highest training standards for road transport professionals.

The IRU Academy provides employees with the knowledge and skills they need to do their job well, adapt to change and improve the industry's overall performance. With IRU's internationally recognised standards and certifications, we aim to:

- make road transport safer for every road user,
- ensure that our sector constantly adapts to new challenges, and
- boost the image of our profession so we can attract new talents.

Selected IRU Academy's training courses are designed to empower chemical and dangerous goods industry workforce around the world. Asian Institute of Logistics is the Accredited Training Institution (ATI) entrusted by IRU to deliver these training programmes in Malaysia.

A long-exposure photograph of a road at night, showing light trails from cars moving along the road. The road is wet and reflects the lights. The background shows a forest and mountains.

“Increasing road safety and transport efficiency through improved professional competence”



Forward Message from
IRU Academy, Geneva

IRU is the International Road Transport Union, founded 75 years ago in Geneva to facilitate trade, international road transport and passenger mobility, and to support sustainable development worldwide. We have been driving economic growth in more than 100 countries, upholding the interests of all road transport operators by finding increasingly efficient ways to connect societies.

We enjoy long-standing partnerships with the United Nations, the European Union and Eurasian institutions, giving us the insight needed to drive progress in the road transport industry.

Today, we connect societies with safe, efficient, green mobility and logistics.

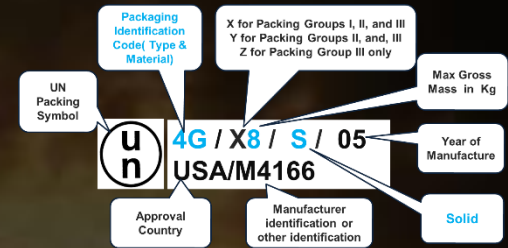
Malaysia's implementation of the ASEAN Protocol 9 provides a great opportunity to make transport of dangerous goods safer and more efficient. Not only this shall provide enhance transport facilitation by mutual recognition of standards in accordance with key provisions of the UN Agreement on the International Transport of Dangerous Goods by Road (ADR).

Such adherence to International Standards will require that transport professionals get equipped with the knowledge and skills to demonstrate high qualification standards thus enhancing safety and efficiency in transport operations. Thanks to the recently established cooperation with Asian Institute of Logistics Malaysia, we are setting the cornerstone to establish the required training capacity to deliver ADR Training for drivers involved in transport of Dangerous Goods by Road. Once the drivers will be trained, in parallel we are exploring the setup of ADR Examination capacity so that the Malaysian industry benefit from ADR compliant Certification. At the same time, programmes for Managers are also considered to be deployed to ensure that the entire transport of dangerous by road supply chains' get strengthened.

IRU commands the efforts undertaken by the industry and the institutional stakeholders in order to make Malaysia a role model in the region and beyond.

Patrick Philipp
Director Certification and Standards

ADR TTT PLAN / PHASE 2024



Day 1: 24 th June 2024, Monday		
PLAN / PHASE	CONTENT	ACTIVITY
08.00-09.30	ADR TTT and ADR DGDT Launching Ceremony	
09.30-10.00	Refreshment & Morning Break	
10.00-11.30	Packages & Bulk 1: Introduction to ADR	<i>Presentation: ADR Basic 01</i>
11.30-13.00	Packages & Bulk 1: ADR Structure and Training Requirements	<i>Presentation: ADR Basic 02</i>
13.00-14.00	Lunch Break	
14.00-15.30	Packages & Bulk 1: ADR Legal Framework	<i>Presentation: ADR Basic 03</i>
15.30-17.00	Packages & Bulk 1: ADR Driver Training Requirements 1 – Classification	<i>Presentation: ADR Basic 04</i>
17.00-17.15	Coffee Break	
17.15-18.15	Packages & Bulk 1: ADR Driver Training Requirements 1 – Vehicle, Packaging	<i>Presentation: ADR Basic 04</i>
18.15-18.45	Recap of Day 1	

Day 2: 25 th June 2024, Tuesday		
PLAN /PHASE	CONTENT	ACTIVITY
08.00-09.30	Packages & Bulk 2: Driver Training Requirements 1: Marking, Labelling, Documents	<i>Presentation: ADR Basic 04</i>
09.30-10.00	Coffee Break	
10.00-13.00	Packages & Bulk 2: Driver Training Requirements 2: Vehicle making, Equipment, Transport provisions	<i>Presentation: ADR Basic 05</i>
13.00-14.00	Lunch Break	
14.00-15.30	Packages & Bulk 2: Driver Training Requirements 3: Loading, Carriage in bulk, Security provisions	<i>Presentation: ADR Basic 06</i>
15.30-16.00	Coffee Break	
16.00-17.00	Packages & Bulk 2: Driver Training Requirements 3: Tunnel restrictions, Exemptions	<i>Presentation: ADR Basic 06</i>
17.00-17.30	Recap of Day 2	



LABELS AND BOXES:
ONE SIZE DOES NOT FIT ALL

ADR TTT PLAN / PHASE 2024



Day 3: 26th June 2024, Wednesday

PLAN/PHASE	CONTENT	ACTIVITY
08.00-08.45	Packages & Bulk 3: Roadside checks	<i>Presentation: ADR Basic 07</i>
08.45-09.30	Packages & Bulk 3: Handling emergencies	<i>Presentation: ADR Basic 09</i>
09.30-10.00	Coffee Break	
10.00-12.30	Instructional techniques, Training methodology	<i>Presentation: Pedagogy & Andragogy</i>
12.30-13.30	Lunch Break	
13.30 -14.30	ADR Sample questions	<i>Presentation: ADR Basic 08</i>
14.30-15.00	Coffee Break	
15.00 -15.30	Recap of Day 3	



Day 4: 27th June 2024, Thursday

PLAN/PHASE	CONTENT	ACTIVITY
08.00-08.45	Tanks 1: Introduction, Basic definitions	<i>Presentation: ADR Tank 01</i>
08.45-09.30	Tanks 2: Documents	<i>Presentation: ADR Tank 02</i>
09.30-10.00	Coffee Break	
10.00-12.30	Firefighting – LIVE	
12.30-13.30	Lunch Break	
13.30 -14.30	Tanks 3: Marking and Placarding vehicles	<i>Presentation: ADR Tank 03</i>
14.30-15.30	Tanks 4: Vehicle approval, inspection, cleaning, construction	<i>Presentation: ADR Tank 04</i>
15.30-16.00	Coffee Break	
16.00-16.45	Tanks 5: Tank codes and Tank hierarchy	<i>Presentation: ADR Tank 05</i>
16.45-17.15	Tanks 6: Tank loading and unloading	<i>Presentation: ADR Tank 06</i>
17.15-18.45	Tank-vehicle demonstration	
18.45-19.15	Recap of Day 4	





Day 5 : 28th June 2024 Friday Examination & Pilot Presentation

PLAN/PHASE	CONTENT
08.00-08.45	Theoretical examination 1: Packages and Bulk
08.45-09.30	Theoretical examination 2: Tanks
09.30-10.00	<i>Coffee Break</i>
10.00-12.00	Pilot Presentation 1
12.30-13.00	<i>Lunch Break</i>
13.00 -14.30	Pilot Presentation 2
14.30-15.00	<i>Coffee Break</i>
15.00-16.00	Pilot Presentation 3
16.00-16.30	Discussion, Closure

Congratulations to all ADR TTT Participants 2024



Sazali Bin Ibrahim



Aliya Binti Anhar



Jagjit Singh A / L
Dhanna Singh



Visnu A/L Nathan



Shabir Ahmad Bin
Abdul Hamid



Abdul Sattar Bin
Abdul Kadir



Jayabatan A / L
Mayyar



Mohd Suhailzan
Bin Sulaiman



Azmi Bin
Muhammad



Mohd. Alde Bin
Zakaria



Harjit Singh A / L
Harban Singh



Azizam Bin Uyup

The ADR TTT Examinations and Pilot Presentation is the final assessment requirement by IRU Academy to determine the level of understanding and ability of the participants to be a successful ADR Certified Trainer / Instructor.

Participants are required to present 20 minutes 'mock training session' that will be recorded and send to the IRU Academy for evaluation and final marks. Participants are required to achieve an overall 80% marks to pass and gain their TTT certification.

In Malaysia, significant number of road accidents involving chemicals, petrochemical & dangerous goods transportation vehicles that have resulted in fatalities, community impacts, and environmental damage. The Chemical Industry's risk & hazard assessment classifies Malaysia's road transportation as a high-risk activity.

Studies conducted have shown many of these incidents are result of human factors, primarily with the lack of knowledge & skills of drivers in handling chemicals or dangerous goods cargoes.

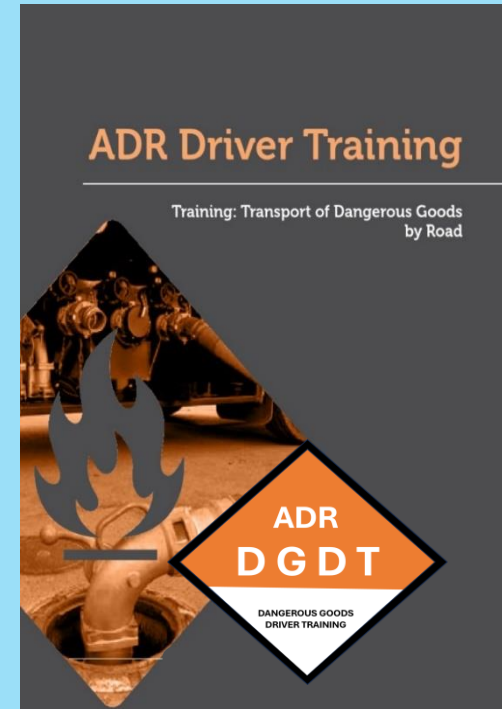
The industry acknowledges these significant risks and wants to introduce an upskilling initiatives and programme for chemical and dangerous goods heavy vehicle drivers through specialized training.

The United Nations (UN), through their ADR guide have developed the 'Orange Book' guidelines which has been in used globally to provide Dangerous Goods (DG) Drivers with the knowledge & skill to manage the transportation of dangerous goods (DG) by road. IRU-Academy in Geneva has been given the authority by the UN to roll out these training globally. The Chemical Industry in Malaysia recognises the ADR guidelines as a means of mitigating these road risks and have requested the Chemical Productivity Nexus (under MPC) to import this Dangerous Goods Drivers Training (DGDT) into Malaysia.

Further to this, this initiative also aligns with the ASEAN Framework Agreement on the Facilitation of Goods in Transit (AFAFGIT) Protocol 9, signed by all ASEAN member states, including Malaysia.

The DGDT serves as an essential pathway for Malaysian DG drivers to enhance their skills and knowledge for safely transporting chemical & dangerous goods on Malaysian roads as well as across borders of ASEAN.

- Provide comprehensive training and certification for DG drivers, ensuring they possess the necessary skills and knowledge to operate as competent DG drivers.
 - Enhance the marketability and employability of DG drivers within the industry.
 - Foster an understanding of the commercial and environmental risks associated with transporting DG cargo.
- Equip DG drivers to effectively respond to emergencies and rescue operations in the event of unforeseen incidents on the road.
 - Prepare DG drivers to obtain an ADR-accredited Certificate of Professional competence.
 - Facilitate readiness for Protocol 9 (Dangerous Goods) ADR requirement and compliance with the AFAFGIT cross-border regulations.



The DGDT training in Malaysia by the International Road Transport Union (IRU) would be 'localised', in the national language (including training slides, training delivery, and also the examination questionnaires), and will be conducted with 'local' trainers, through IRU's Accredited Training Institute (ATI), here in Malaysia.

The DGDT Training is planned in Quarter 4, 2024, be a 5-day HRDF Registered Training Programme and it will be hands-on practical training. Successful candidates will be awarded with a Certificate of Professional Competence and recognised as an ADR Certified Dangerous Goods Driver.

Forward Message from
Chemical Productivity Nexus, MPC



The Dangerous Goods Drivers Training (DGD) is a specialized UN-ADR program tailored for drivers in accordance with the ADR Orange Book requirements. This initiative is part of a global UN effort to equip all drivers transporting Chemical and Dangerous Cargo (CDC) with the essential safety knowledge needed to perform their duties safely, knowledgeably, and responsibly.

The current ADR Train-the-Trainer program marks the initial phase of 'localising the DGD' by certifying Malaysian trainers to provide DGD training and assessments in the local language.

The Chemical Industry in Malaysia is dedicated to ensuring that all CDC are transported by DGD-certified drivers, aligning with its Responsible Care charter and aligning with the Malaysian Government's ASEAN Framework Agreement on Facilitation of Goods in Transit (AFAFGIT) commitments.

I would like to take this opportunity to thank the Chemical Industry for its commitment, the Malaysia Productivity Corporation (MPC) for its facilitation, and all relevant regulatory bodies for supporting this national upskilling project. This initiative is a game changer in ensuring the safety of CDC operations on Malaysian roads.

Regards,

Dato' Dr. Mohamed Noor Sany

Chemical Productivity Nexus

The Malaysia Productivity Corporation
Ministry of Investment, Trade & Industry



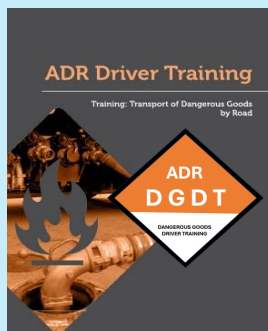
ACADEMY

ASSOCIATE
TRAINING
INSTITUTE

2024

2025

Training Programmes & Short Courses



IRU RoadMasters

IRU RoadMasters is a certification programme that optimises commercial driver competencies and equips companies with the right data to make informed decisions and mitigate operational risks. It identifies and addresses gaps, while boosting recognition of high professional standards.

Based on industry-established skills profiles for **goods**, **hydrocarbon** and **passenger transport**, driver performance data is compiled in digital dashboards with sophisticated analytics that enable managers to make informed decisions on an individual, unit and company level.

Read more.... <https://www.iru.org/what-we-do/certification-standards/iru-roadmasters>

ADR Dangerous Goods Safety Advisor

- The programme provides in-depth coverage of the ADR agreement with candidates taking part in practical exercises, case studies and discussion. Each programme is tailored to its specific audience, emphasising risk prevention at the warehouse or on the road.
- The main legislation governing international transport of dangerous goods by road is the UN ADR agreement
- According to ADR (Chapter 1.8.3), undertakings involved in such transport must appoint a dangerous goods safety adviser (DGSA)
- The DGSA's role is to help the undertaking preventing the risk inherent in the transport of dangerous goods
- Participants receive the IRU Academy Dangerous Goods Safety Adviser certificate when they have completed the course and successfully passed the exam.

ADR Dangerous Goods Driver Training

- 5 days intensive hands-on training covering ADR Basic and ADR Tank.
- 18 teaching units – Covering ADR Basic & ADR Tank
- Assessment & Final Examinations
- ADR Certified Dangerous Goods Driver Certificate by IRU Academy Geneva
- Chemical Industry Supported Training Programme for Dangerous Goods Drivers

Short Courses... [read more](#)

IRU Certified Transport and Distribution Professional programme

<https://www.iru.org/resources/iru-library/iru-certified-transport-and-distribution-professional-programme>

IRU Emergency Response Driver Programme

<https://www.iru.org/what-we-do/certification-standards/iru-academy/training-programmes/emergency-response-driver-programme>

Road Transport Manager Programme

<https://www.iru.org/what-we-do/certification-standards/iru-academy/training-programmes/road-transport-manager-course>

Defensive Driving & Crash Prevention Programme

<https://www.iru.org/what-we-do/certification-standards/iru-academy/training-programmes/defensive-driving-crash-prevention-programme>

Certificate of Professional Competence: Manager

<https://www.iru.org/what-we-do/certification-standards/iru-academy/training-programmes/certificate-professional-competence-manager>

Certificate of Professional Competence: Driver

<https://www.iru.org/what-we-do/certification-standards/iru-academy/training-programmes/certificate-professional-competence-driver>



Our Sincere Thanks to:

IRU Academy UNECE, Geneva

Malaysia Productivity Corporation (MPC)

National Institute of Occupational Safety and Health (NIOSH)

Chemical Industries Council Malaysia (CICM)

Human Resource Development Corp (HRDC)

Asian Institute of Logistics (ASIL), IRU Academy ATI, Malaysia

Police Diraja Malaysia (PDRM)

Chemical and Dangerous Goods Industry Partners

