



# MANAGEMENT LEVEL TRAINING ON TRANSPORTATION SAFETY

The objective of this course is to build a basic understanding of the impact of transportation safety on corporations and identify areas of improvement. The course covers the three main parts of transportation safety, i.e.: Vehicle Crashworthiness, Road Design and Driver Management. The course contents are specifically designed for mid-level and Senior Management Officers, Road Engineers, HSE Officers, Logistics and Transport Officers.

# Course Details

Venue: At Client's Venue

## Course Contents

### Introduction:

#### The Cost of Crashes and Introduction to the Science of Crashworthiness

1. Course Objectives
2. Motivation
3. Crash Science Basics
4. Facts and Figures
5. Haddon's Matrix of Safety
6. Crash Cost Calculation
7. History of Crashworthiness and Road Safety Development

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### Areas of Transport Safety and their Management

1. Vehicle
2. Road
3. Users
4. Pre-Crash, Crash, and Post-Crash Safety

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### Safety Equipment in Cars and HTVs

1. **Passive Safety:** Head Restraints Crumple Zones, Collapsible Steering Wheels under Ride Guards, Bull Bars, ABS Brakes and Limitations. Seat Belts, SRS Airbags and Limitations.
2. **Vision and Visibility:** Newer and Conventional Technologies, Vehicle Visibility, Vehicle Intent, Vehicle Vision
3. **Tires & Brakes:** S Cam Brakes, Disc vs Drum, Antilock Brakes, Vehicle Stability Control, Traction Control, Brake Assist, Load Adaptive Braking
4. **Electronic Active Safety:** Cruise Control, Collision Avoidance, Collision Intervention, Systems, Headlight Technologies

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### Road Asset Management

1. Road Furniture
2. Crash Barriers
3. Illumination and Conspicuity
4. Road Surfaces

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### Vehicle Crashworthiness Tests and Ratings

1. NCAP
2. FMVSS
3. Moose Tests

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### Crash Investigation Case Study

1. Therri Bypass Collision
2. Armored Vehicle

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### HTV Issues, Freight Securement, Driver Management and Controls

1. Rollover, Slosh and Surge, Baffle Design, Jackknifing, Fatigue Management. Underride, Front and Side. Cyclist/Motorcyclists Suck-in

### OGRA RT Standards

2. Cargo Securement
3. Driver Management
4. Fleet Safety and Standards

# Company's Profile

We ADCR, are the business of saving lives!. Our sole aim is to make vehicles and roads safer for everyone through the use of technology and our technical expertise. So far, ADCR is the only organization in Pakistan, government or private, specializing in vehicle safety and crashworthiness research and solutions.

We have always advocated that investing in safety is the best investments with the fastest return – and all our clients also agree. We work with our corporate clients in developing **Fleet Safety Management** and help them develop and systematically implement the best and safest methods of transportation, especially if they are transporting hazardous material! ADCR also audits the logistics operations as well as checks the health and crashworthiness of their fleet vehicles. We use our legal expertise gained from development of regulations and policies for the government to help our valuable clients verify that all their operations and vehicles are compliant with the laws of the land and relevant international transportation safety standards such as ADR and ECE.

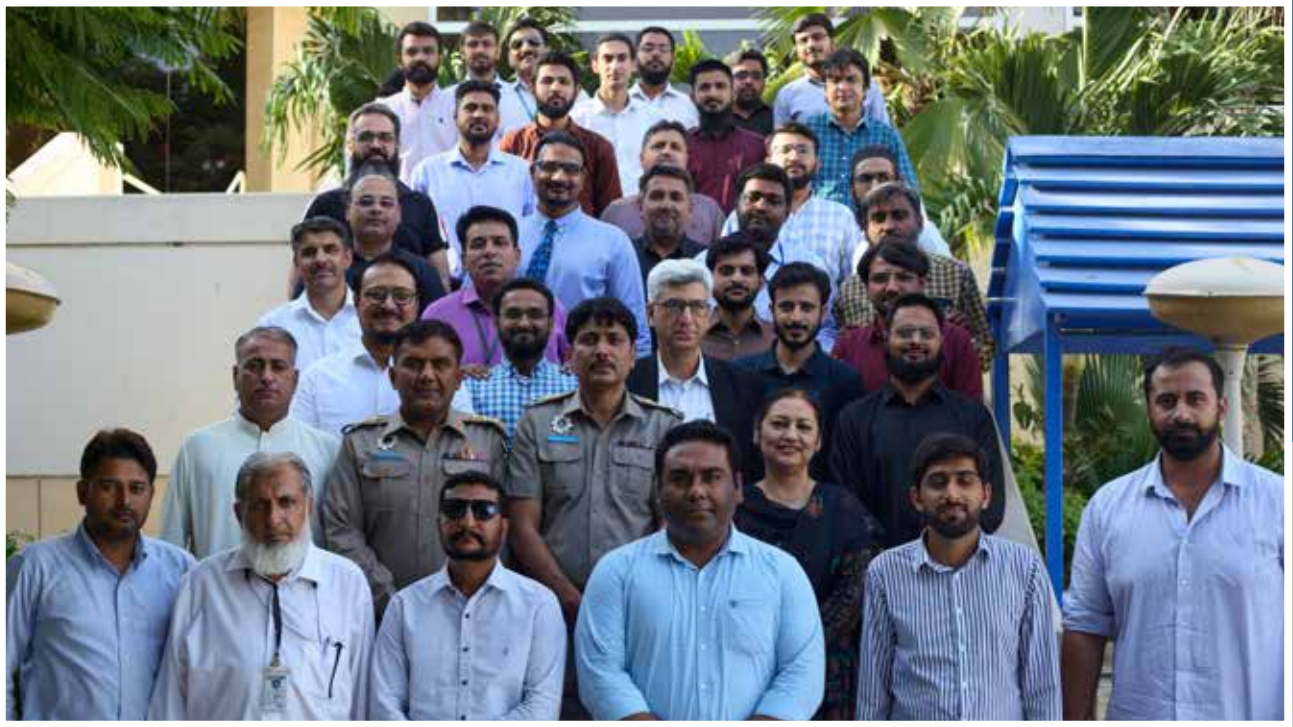


Our **Training Wing** has trained over 3000 professionals from both the corporate private sector as well and government law enforcement personnel in Crash Investigations, Vehicle Safety, Fleet Safety Management, Transportation Laws of Pakistan, OGRA-RT Technical Standards as well as a dedicated trainings on Oil Tanker Safety Issues.

We also work as **Policy Research and Lawmaking Consultants** for the Government of Pakistan and have helped them pass laws on vehicle construction as well as conduct surveys and research on policy tools.

Our **Crash Investigation Wing** is one of its kind expertise in Pakistan that investigates accidents technically in painstaking detail to reconstruct realities and learn from failures. CIW has been involved in federal investigations of the highest level for many road crashes of national significance.





## Our clients

