



# TRAINING ON UNDERSTANDING & IMPROVING FLEET SAFETY

Road crashes are the single biggest cause of at work related fatalities and injuries for corporations globally; they also cause a huge amount of financial loss - The silver lining is, they are all preventable!

This two day state of the art training by ADCR is aimed at **Logistics Managers, Transporters & HSE Managers** to provide them an in-depth knowledge of the exciting world of crash safety engineering on HTV fleets. The training would cover topics of vehicle regulations and protocols, fleet management methodologies, laws in Pakistan and discusses what all should be done to improve fleet safety.

The training would enable your team to:

- Gain basic understanding of the principles of vehicle safety and ways to implement them in fleets.
- Handle and develop transport contractors better and safer.
- Better manage fleet inspections and vehicle fitness methodologies.
- Identify foreseeable crashes and rectify them before they happen.
- Implement compliance of technical standards of Pakistan.
- Improve the safety of your fleet, lower incident rate, save precious lives & money.

Course Location: **At client's venue**  
Course Duration: **2 days**



## Course Contents:

### **Introduction to Automotive Crash worthiness: The science and hidden costs of crashes**

Crash science basics, Facts and figures, Haddon's matrix of safety. What the user needs to know and how will it help

### **HTV Passive Safety and Active safety**

Head restraints, crumple zones, collapsible steering wheels, under ride guards, bull bars, ABS brakes and limitations. CNG issues, Seatbelts, SRS airbags and limitations, SUV and HTV safety issues. Laminated windshields Disc vs Drum, Antilock Brakes, Vehicle Stability control, Traction Control, Brake Assist, Load Adaptive Braking, Cruise Control, Collision Avoidance, Collision Intervention systems, Headlight technologies

### **HTV, specific issues, Common Crash types and prevention methodologies**

HTV/Pedestrian HTV/Motorcyclists crash, Left turn squeeze, Rollover, Cyclist suck in, Slosh and Surge, Baffle Design, Jackknifing, Underride, Front and Side. Truck Aerodynamics, Tire issues

### **Case study of Major HTV crashes**

Case study of the Ahmedpur Sharqia crash, Babusar Bus Crash, Therri bypass crash, Lady Diana Crash and discussion Road factors, Fleet management lapses, Vehicle design flaws, etc.

### **Laws in Pakistan Governing Road transportation and their implementation**

Pakistan Vehicle and Dimensional rules, Pakistan Motor vehicle rules, EDB certification, PSQCA trailer rules, OGRA regulations, Pakistan Explosives Act, Pakistan Petroleum rules.

International ADR standards, New Car Assessment Program (NCAP), FMVSS, Cargo Securement Rules

### **Fitness Inspections and Management**

Tire inspections and management, Vision & Visibility Management, Engine and Controls, Driver Psychology and transport vender development strategies, Fatigue Management Brake testing,

## Instructor Profile



**Dr. Omer Masood Qureshi** is a PhD in automotive crash safety from the University of Modena, Italy with crashworthiness research work experience in Ferrari MillieChille Lab. He did his MS from the University of Genoa Italy, and B.E from GIK institute, Pakistan.

Currently, he runs Automotive Design and Safety Lab, ([www.adcr.com.pk](http://www.adcr.com.pk)), the pioneering crash research facility in Pakistan. ADCR is a consultant for a number of corporate, government and international organizations including Engro, Mari Petroleum, Hascol, 3M, Asian Development Bank, NH&MP, NHA, FWO, PMO, Pakistan Railways, & Ministry of Communications etc..

He is also the author of Highways and Motorways Dimensional Rules of Goods Transport Vehicles. He is also considered the leading crash investigator in Pakistan and has been part of several national level investigations for the Government of Pakistan including the Ahmedpur Sharqia Oil tanker Tragedy and the Ghotki Train Crash.

