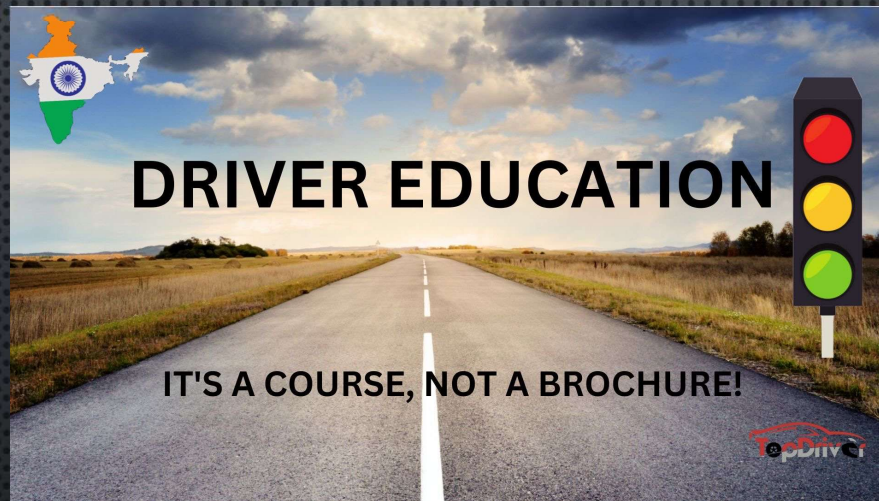


Improve Road Safety via (CDE) Compulsory Driver Education



IRF- "Something must change for better road safety management in India- It's going from bad to worse!"

PRESENTED BY NARESH RAGHVAN, TOPDRIVER EDUCATION LLP, HYDERABAD, TS





Presenting a
new approach
to solving our
road safety
problem by
focusing on the
vehicle
operator



PROBLEM:

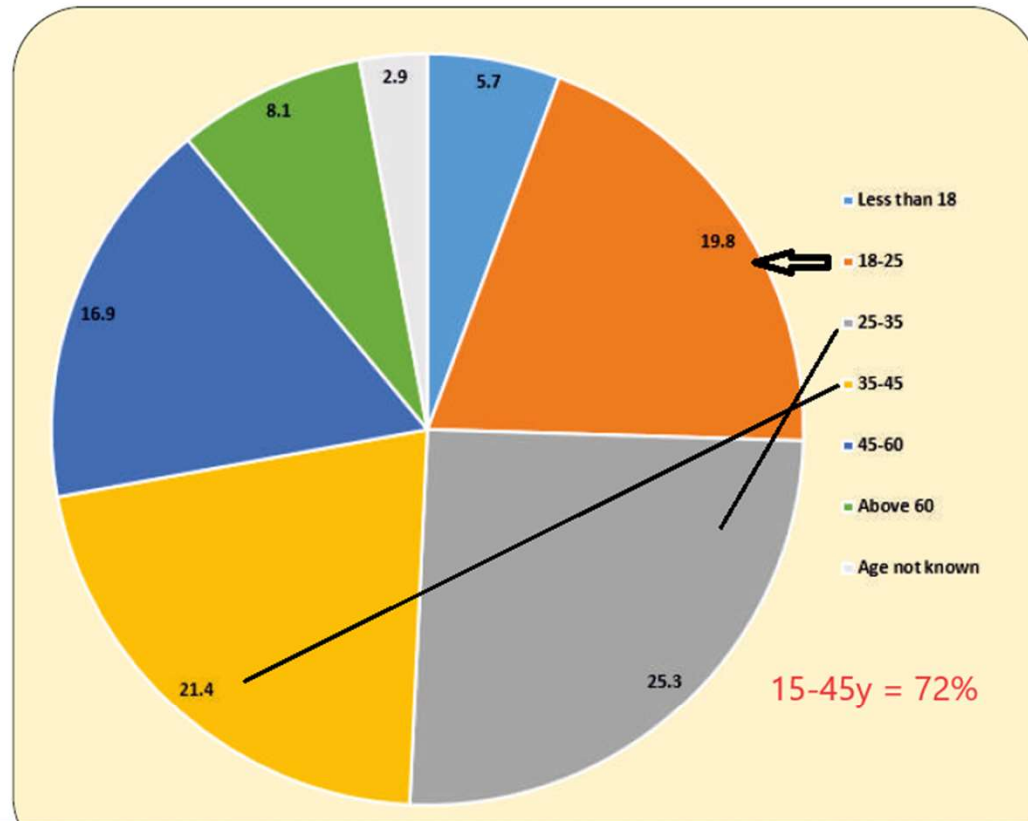
- 173,000 PEOPLE DIED IN 2023 IN ROAD ACCIDENTS IN INDIA
- THAT'S 464 DEATHS PER DAY 20 PER HOUR
- 1% OF THE VEHICLES 11% OF DEATHS- EXTREMELY DISPROPORTIONAL



45% of deaths are people under age 35

The young are most vulnerable +
It's a huge cost to the country's productivity/
GDP

Chart 4.4: Age profile of Fatal Road Accident victims during 2022 (in percent)



* 2-wheelers
accounted
for 44% of
deaths.

Mostly due
to poor risk
perception!



Overall Conclusion:

According to Morth
~80% of road accidents are due to
'Driver Error'



We need to fix 'DRIVER ERROR' urgently!



What has the
Government
being doing
to bring
down road
fatalities IN
LAST 10
YEARS?



4 E'S OF ROAD SAFETY

- **ENFORCEMENT:** MOSTLY MANDATING HELMETS AND SEATBELTS, CHALLANS BY PHOTOS, NO MOBILE PATROLS **NOT ENOUGH !**
- ✓ **ENGINEERING (ROADS):** BUILDING BETTER & SAFER ROADS
- ✓ **ENGINEERING (VEHICLES):** SEATBELTS, ABS, AIR BAGS, SAFETY RATINGS
- ✓ **EMERGENCY SERVICES:** INCREASING AMBULANCES AND ACCESS TO THEM
- **EDUCATION:** **NOTHING**

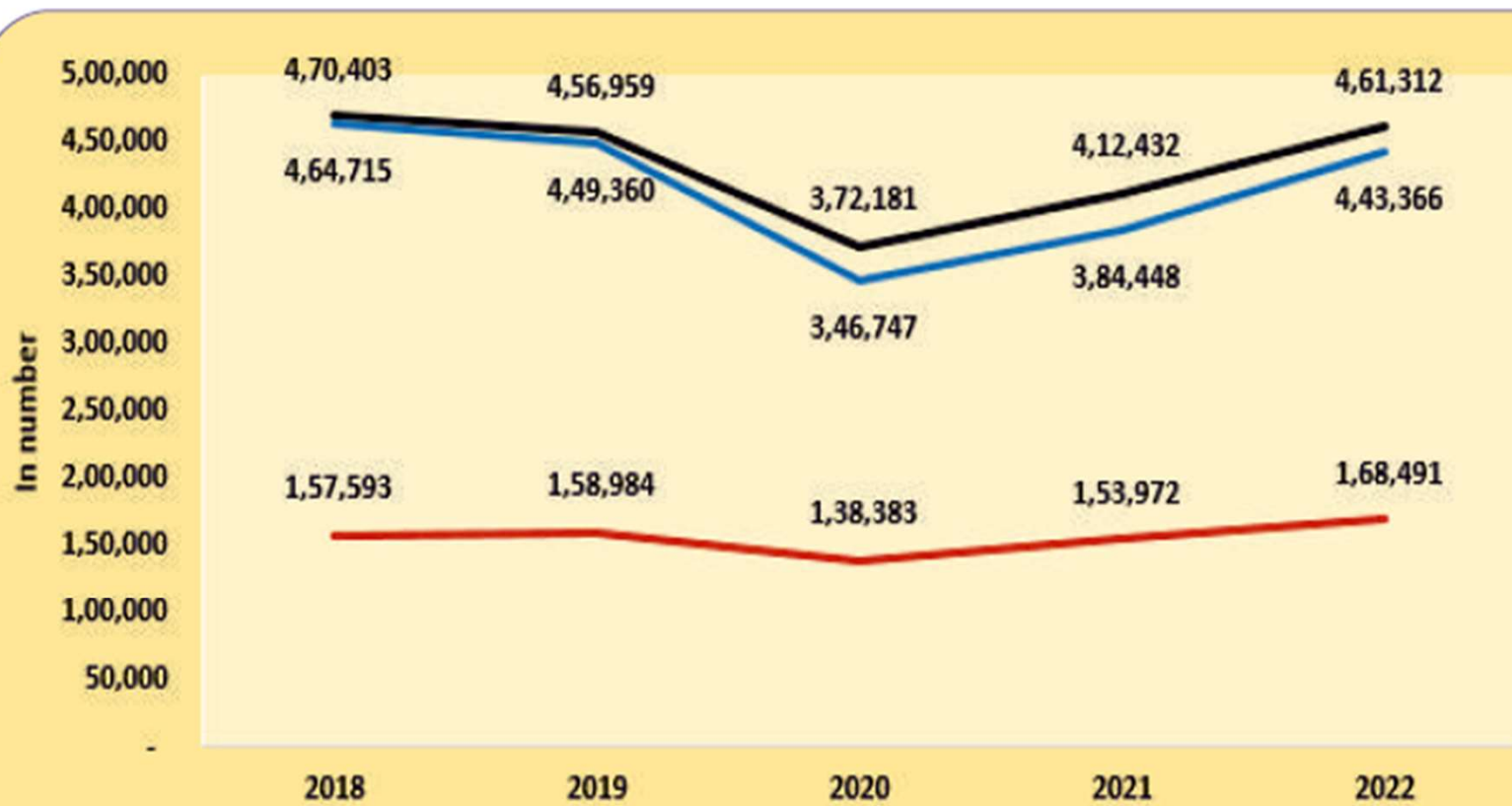
MOST DRIVERS DON'T KNOW EVEN BASIC RULES DUE TO LACK OF ANY DRIVER EDUCATION. GET THE LICENSE START DRIVING!

How effective have the improvement in
Road engineering, Vehicles engineering, &
Emergency Services been?



Zero reduction in fatalities!

Chart 1.1: Trends in number of Accidents, Fatalities and Persons Injured: 2018 to 2022




June 7
2023 press
release.

https://economictimes.indiatimes.com/news/india/india-cannot-achieve-target-to-cut-50-per-cent-road-accidents-b...

India cannot achieve target to cut 50 per cent road accidents by 2024 due to shortcomings: Nitin Gadkari


PTI • Last Updated: Jun 07, 2023, 08:47 PM IST SHARE FONT SIZE SAVE PRINT COMMENT

Synopsis
"We had said that we will reduce the number of road accidents by 50 per cent before 2024. But we could not do (reduce) much. We could not do it because we have certain shortcomings and there are other people who are not doing their bit," Gadkari said while addressing a public function here.



They compromise with road safety standards while preparing DPR to reduce the cost of construction and deliberately don't provide for the construction of flyovers, under bridges required in a road project, he noted.

India will not be able to achieve the target of reducing [road accidents](#) by 50 per cent before 2024 due to many shortcomings on the part of the government and other people, who compromise with road safety standards, Union Minister [Nitin Gadkari](#) said on Wednesday. He pointed out that more people die in road accidents than in street fights, riots or terrorist attacks.



Shelter

- BECAUSE NOTHING HAS BEEN DONE ABOUT DRIVER EDUCATION

Let's look at a few videos to understand why we need Compulsory Driver Education (CDE)



- NARESH RAGHAVAN
MECH ENGINEER HYD, AND MBA
FROM USA.
SOFTWARE CONSULTANT TURNED
ROAD SAFETY AUTHOR.
CERTIFIED IN DEFENSIVE DRIVING
FROM USA.
DRIVEN IN 9 COUNTRIES

- CREATED AND PUBLISHED INDIA'S FIRST
DRIVING MANUALS ON DRIVER
EDUCATION, APPROVED BY RTA
(AVAILABLE ON AMAZON, FLIPKART...)
- CREATED AUDIO-VISUAL DRIVER
EDUCATION COURSES IN ENGLISH AND
HINDI AND AVAILABLE TO GENERAL
PUBLIC ON UDEMY.COM
- BASED OUT OF HYDERABAD

Driving Manuals for Cars, 2-wheelers & Heavy vehicles

The image displays a collection of driving manuals and a portrait of the author, Naresh Raghavan. The manuals are arranged in a grid-like pattern. The top row features a portrait of Naresh Raghavan on the left, followed by the English version of the 'CAR DRIVING SCHOOL MANUAL FOR INDIA' (2nd Edition) and the 'HEAVY VEHICLES DRIVING MANUAL FOR INDIA'. The bottom row shows the Hindi versions of these manuals: 'कार ड्राइविंग पाठशाला' (Car Driving School) and 'भारी वाहनాల డ్రైవింగ్ శిక్షణ పుస్తకము' (Heavy Vehicle Driving Manual). The authors' names, Naresh Raghavan and Malcolm Wolfe, are visible on the covers.



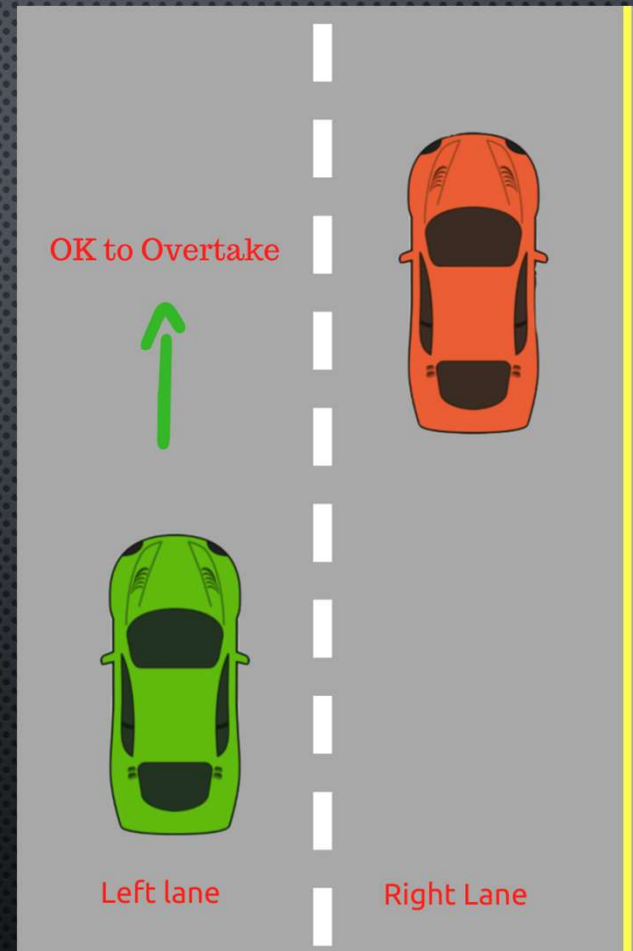
Rule:
vehicles joining
main road have
to yield to
traffic coming
from right.

(even if making
free left, MVDR
2017)

MVDR 2017 Rule:

If you have 2 or more lanes on your side of roadway you may overtake/pass from the left lane

but not in a single lane...





Rule:

Don't overtake from left in single lane.

Defensive Driving tip:

Large Vehicles have blind spots- don't drive in them



Rule: Don't cross
solid line to
overtake.

Also:

Don't overtake if
you don't have
clear line of
sight/or
sight distance

(CMVR 1989)

HOW TO JOIN A MAIN ROAD TO MAKE A RIGHT TURN

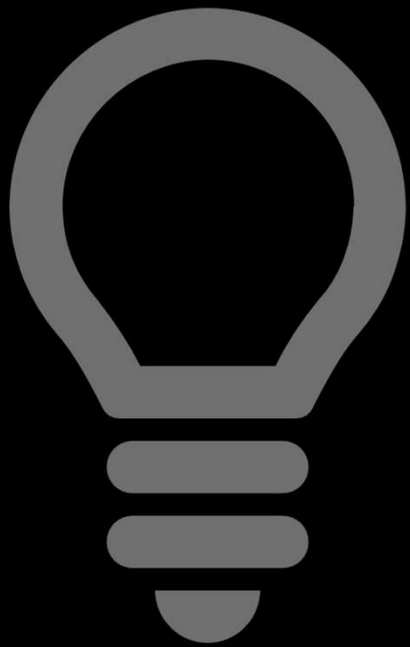


BESIDES ACCIDENTS, THINK OF THE TOLL ON OUR MENTAL WELL BEING



FOCUWAY 2024-07-27/13:12:12





SOLUTION



Let's start focusing on the driver.

“A well-trained defensive driver can drive safely in bad road conditions, bad traffic, bad weather, even with a bad vehicle”





Of 50 Basic Road Rules

Need Enforcement

1. Wrong side driving
2. Jumping Red light
3. Drunk driving
4. Speeding
5. Helmet & Seatbelt



Need Education

6. M-S-M
 7. Sight Distance
 8. Lane discipline
 9. Overtaking
 10. Joining a main road
 11. Anticipation
 12. S-Bend
 13. Braking distances
 14. Distracted driving
 15. Highway driving
 16. Hydroplaning
 17. Ghat road driving
 18. High beam usage
 19. Road markings
 20. Traffic signs
- +30 more rules...**





Typically, Indian drivers are good with motor controls, such as Accelerator, brake, clutch, steering (ABC's),

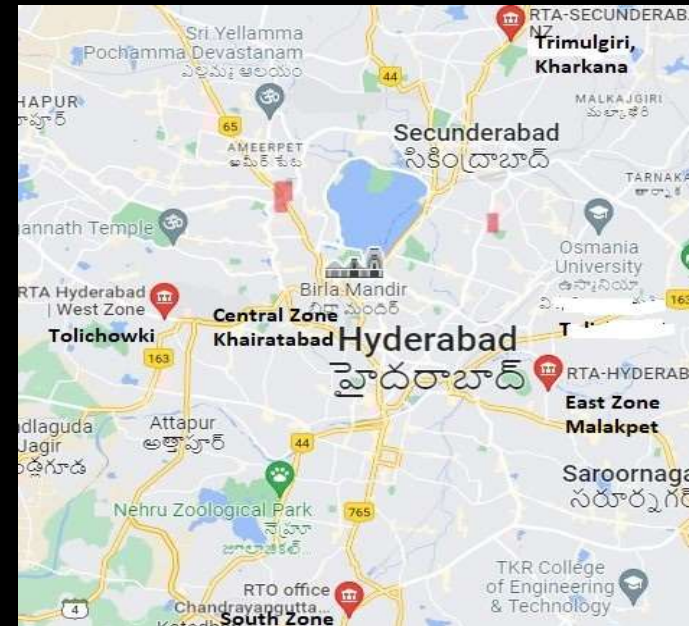
It's rules & defensive driving they lack (theory)

So let's teach some theory!

EXAMPLE:

COMPULSORY DRIVER EDUCATION FOR HYDERABAD CITY

- 1 LAKH DRIVER LICENSES ISSUED BY 5 RTO'S OF HYD DISTRICT.
- GOAL: TRAIN 1 LAKH NEW DRIVERS EVERY YEAR USING A ROAD SAFETY 'MOVIE'
- TRAINING MOVIE OF 3- HOURS AT LEAST TO BE CONDUCTED BY CERTIFIED ROAD SAFETY NGO'S IN A CLASSROOM.



SHORTLY RELEASING AT AN RTA NEAR YOU...



Presenting a movie on

DRIVER EDUCATION FOR INDIA

LEARN TO DRIVE SAFELY ON OUR ROADS



Proposed Solution:

Train new drivers
for FREE in Rules
and Defensive
driving (theory
only)



Bring down
accidents &
deaths!



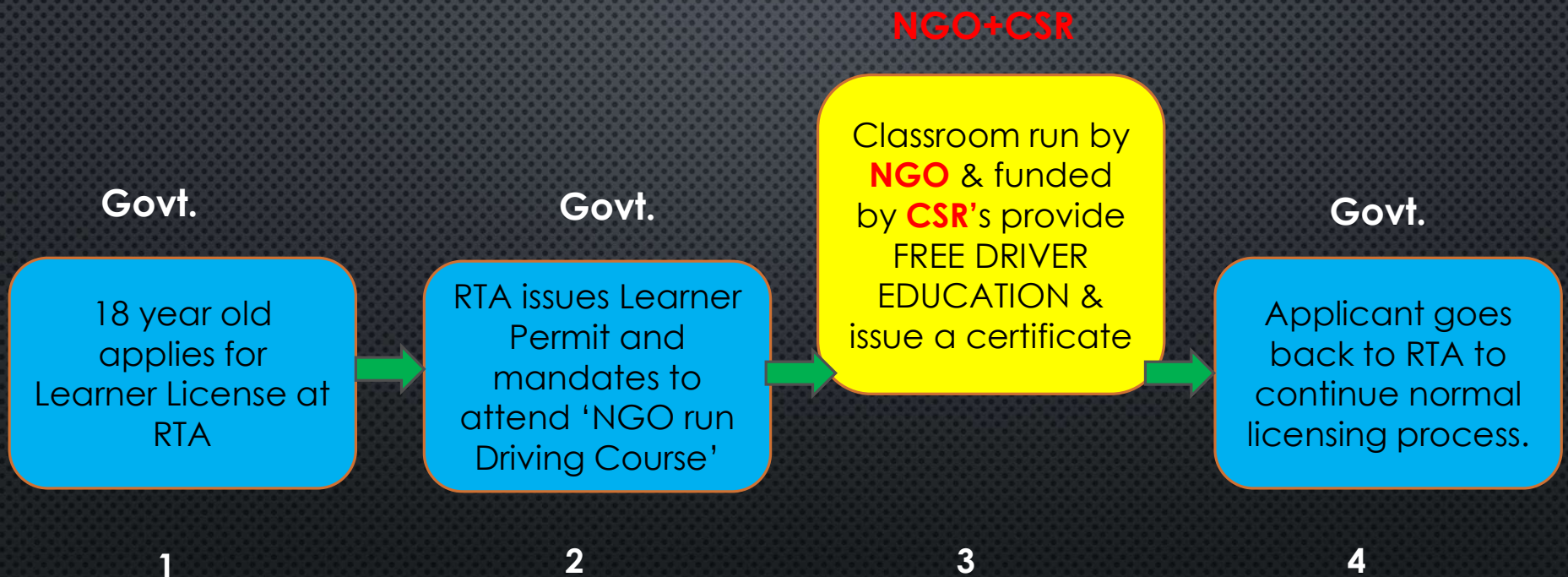
'Driver Education' theory program based on Indian road rules can impart the following:

- Road rules
- Defensive driving
- Real life theoretical skills to stay alive on the road.
- Risk perception
- Soft skills -to be considerate and kind to other road users.

Let's make driving a better experience for all road users



PROPOSED PROCESS FLOWCHART



ANNEXURE-I (D)

**SCHEME FOR INDUCTION TRAINING COURSE IN
LIGHT MOTOR VEHICLE DRIVING**

1) MINIMUM STANDARDS REQUIRED FOR TRAINEES :

The minimum requirements for the trainees to undergo Light Motor Vehicle Driving Training are given as below :

Education : Fluent in reading and writing in Regional Language

Physical Condition : Good vision and free from other Physical disabilities.

2) COURSE DURATION : 27 Hrs spread over 4 weeks
(7 hrs theory & 20 hrs driving practice)

3) SYLLABUS :

The syllabus as prescribed in Rule 31 (2) of Central Motor Vehicles Rules, 1989 for Light Motor Vehicles (the lessons cover parts A, B, C, F, G & K) may be followed.

The course should
be in accordance
with govt syllabus
of
CMVR 1989 rule
31 (2) parts
A,B,C,F,G&K

COST?

- APPROX. 15 LAKHS TO SET UP EACH TRAINING CENTER
- APPROX 50 LACS TO RUN ONE CENTER FOR 1 YEAR (SALARIES, RENT, CONTENT, HOSTING, ELECTRICITY ETC.)
- TOTAL 65 LAKHS FOR FIRST YEAR FOR ONE CENTER

BIG PICTURE:

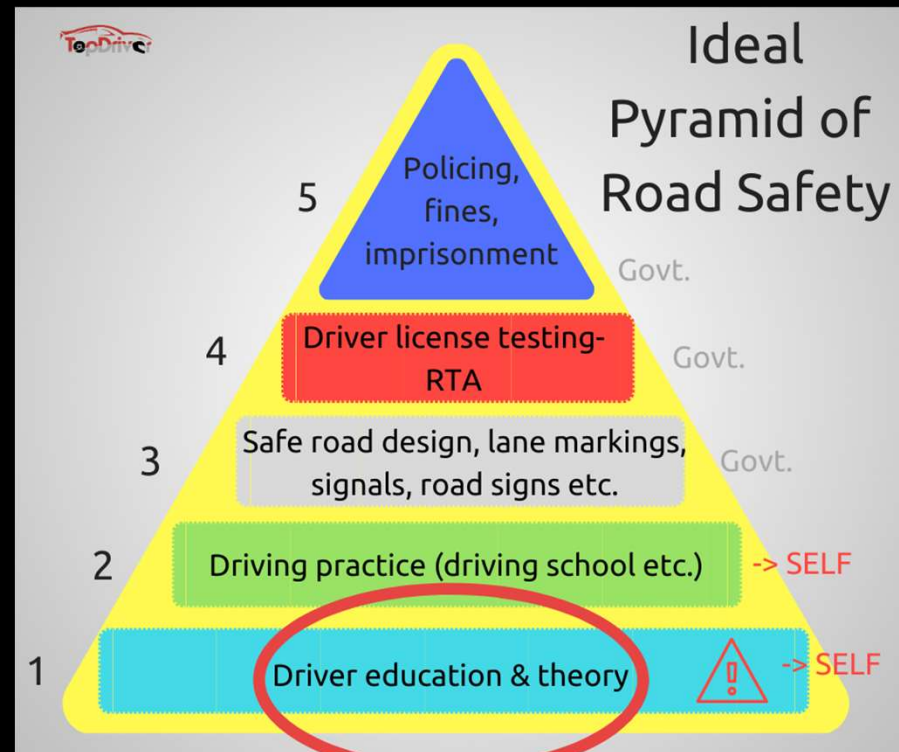
- FOR 5 CENTERS IN HYDERABAD Rs. 3.25 CRORES
- FOR 1100 RTO'S ALL OVER INDIA Rs. 700 CRORE
- JUST FOR PERSPECTIVE- MORTH ANNUAL BUDGET = Rs. 2,70,435 CRORES DURING 2023-24!
- 700 CRORES IS ONLY 0.26 % OF MORTH ANNUAL BUDGET.
- WE MUST SPEND AT LEAST THIS MUCH TO MAKE OUR ROADS SAFER

WE CAN EDUCATE ALL NEW DRIVERS ON ROAD RULES IF-

GOVT. WILL MANDATE AND ENFORCE THE TRAINING

(USING ROAD SAFETY NGO'S AND CSR FUNDS)

DRIVER EDUCATION IS THE FOUNDATION OF ROAD SAFETY & NEGLECTING IT IS MAKING THINGS GO FROM BAD TO WORSE!



THANK YOU!