Incident Management

Traffic Incident Management / Process.

It is a planned and co-ordinated program process to detect, respond & remove traffic incidents & restore traffic capacity as safely & quickly as possible

This is a co-ordinated process which involves a number of public & private sector partners like

- → law enforcement
- → Fire & Rescue
- → Emergency medical services
- → Transportation
- → Public safety communications
- → Emergency Management
- → Traffic Information Media

Transportation

Transportation agencies are typically responsible for the overall planning & implementation of traffic incident Management programs. These

agencies are also involved in the development, implementation & operation of traffic operations centers.

These operational responsibilities include

→ Assist in incident detection & verification
→ Initiate traffic management strategies on incident impacted facilities
→ Protect the incident scene
→ Initiate emergency medical assistance until help arrives
→ Provide traffic control
→ Assist motorists with disabled vehicles
→ Provide motorist information
→ Provide special equipment clearing incident scenes
→ Determine incident clearance & roadway repair needs
→ Establish & operate alternate routes.
→ Repair transportation Infrastructure
→ Co-ordinate clearance & Repair Process

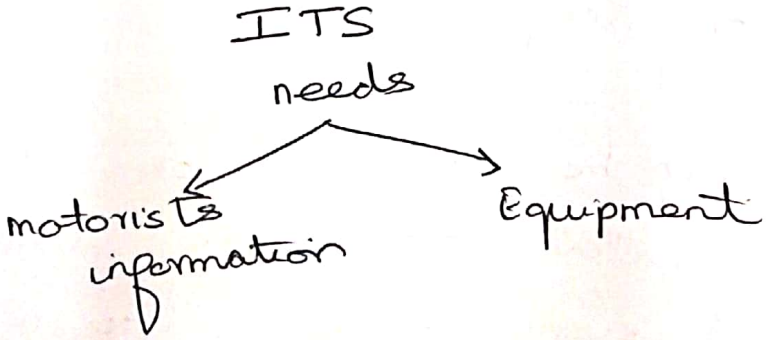
Types of Incidents

1) Traffic clashes (vehicles clashing one another)
2) Vehicle fires
3) Disabled vehicle
4) Traffic stops etc.

Intelligent Transport System (ITS).

ITS are transport systems that apply modern information technologies to improve the operation of transport networks.

These systems acquire vast volume of data on various aspects & process them and apply the result to guide traffic, improve operations & enhance safety



Application of ITS

1) Monitoring traffic flow, provide information

to drivers on congestion on the roads, alternative routes, weather conditions etc

2) AJIS (Advanced Traveller Information system) gives information to highway users on traffic jams, road closures, alternative routes etc

3) Monitoring incidents on the road, such as vehicle breakdown & collisions

4) Electronic collection of toll.

5) Intelligent vehicle highway system (IVHS) in which vehicles are guided longitudinally & laterally by the use of electronic devices.

6) Advanced vehicle control systems (AVCS) dispense with human control of vehicles & rely on computers

7) Traffic can be controlled on urban streets by using information on traffic flows & adjusting the signal operations to reduce long congestion & delay

8). Public Transport Management Systems wherein the fleet can be managed efficiently by analyzing data on vehicle location; passenger loading, scheduling etc.

9) Truck Transport Management Systems, where the data on vehicle location, breakdown, accidents, can be analyzed.

10) Electronic Road Pricing System to decongest the city centers.

* Importance of survival of Transport System during natural disasters like cyclones & Earthquakes

Refer DMM notes (Mechanical Engg. students)

* Importance of survival of Transport system during man made disasters like terrorism & Sabotage

Refer DMM notes (Mechanical Engg. students)