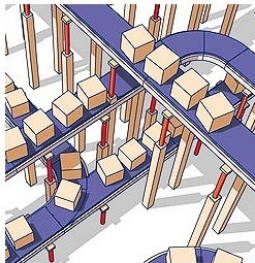
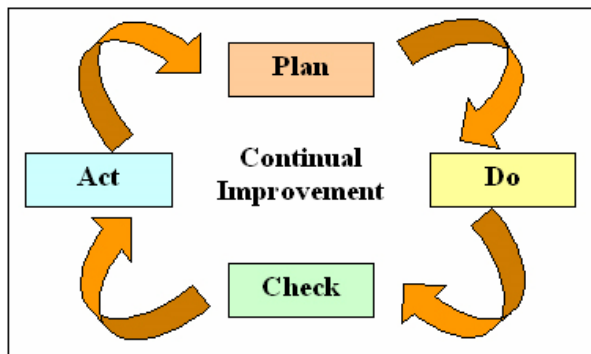


**Monitoring key attributes to
determine
Safety Maturity**

**CII (ER)
November 24, 2010**





- Awareness
- Assessment
- Action



Approach : Safety culture

Identify	Improve	Reduce
Hazards	Risk Assessments	Unwanted incidents
Training needs	Safety behavior	Absenteeism
Business threats	Managerial skills	Insurance premiums



- People
- Management
- Job behavior



- People :
 - Motivation and leadership
- Management :
 - System and structures
- Job behavior
 - “on-the-job” behavior



Safety maturity





Case study



Pool car crash kills, injures

The Telegraph, Nov 20, 2010,
Front page



- Identifying problem :
 - Kids going to school
 - School not providing transportation
 - Parents not driving/accompanying kids
 - Checking of car tyres, before putting kids on
 - Tired/drunken driver
 - Omni car



- Assessment criterion
 - The presence of system to control the risk
 - The level of compliance to the system
 - Potential severity of non-compliance



Level	SMS elements
Strategic	Commitment – Authorities, Parents, School
Tactical	Risk assessment – Inspections by Road & Transport
Operational	Personnel & Training – Motor Vehicle for Permission to ply
Behavioral	Operations – Car pool operators - driving fast etc
Defensive	Awareness – max. number of kids in car, seat belt etc



Summarization

- Management safety actions
- Safety systems
- Risk perception and assessment
- Skills and competence
- Effectiveness of rules and procedures



Thank you !!

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