## AIGA 2006 Meeting TRANSPORTATION SAFETY









12-13 September 2006 Shanghai

**Asia Industrial Gases Association** 

### **Professional Product Driver Certification**

Presented By: Mark Tietje Praxair, Inc.









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**Asia Industrial Gases Association** 

### **Professional Product Driver Certification**







## Why a Certification Program?



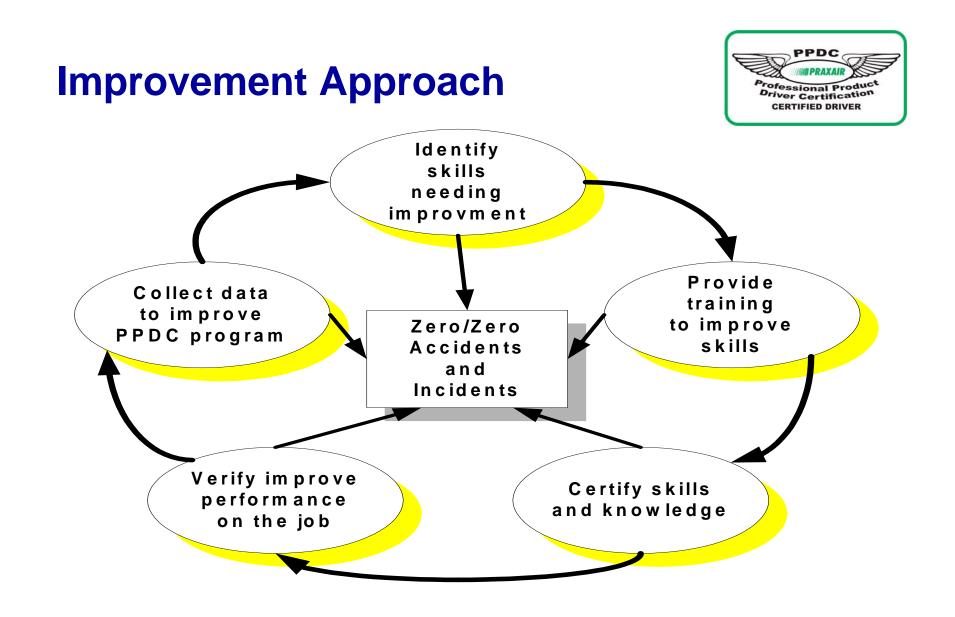
### **Organizational Drive to Improve Transportation Safety**

- High Severity Accidents
- Rollovers
- Tractor/Trailer Uncoupling/Disconnect
- Product Transfer Accidents/Incidents
- Non Highway Maneuvering Accidents/Backing
- Environmental Spill Control (Spill Kit Use)
- Equipment Failure Incidents













### **Program Purpose**



### Purpose

### To change behaviors that contribute to driver accidents and injuries

#### Focus

 Certifying professional product drivers in the necessary skills and knowledge for delivering product in a safe and consistent manner



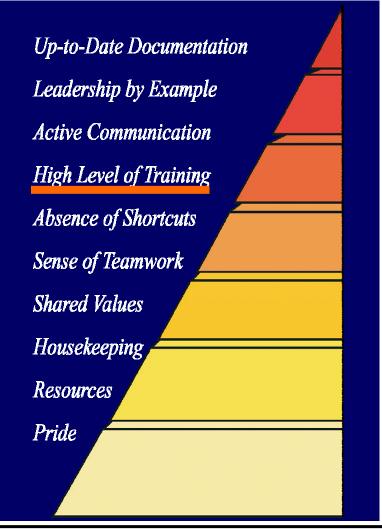


## **Changing Behavior**



### Operational Discipline Doing the right thing every time!

The dedication and commitment by the organization to perform their work consistent with the requirements of the management systems and defined procedures.









## Organizational Discipline Regarding Training



- Absence of skill verification
- Not everyone trained
- Training inconsistency
- Training materials not current with operations
- Budget sensitivity
- Not enough time—desire to compress training time
- Training at beginning and end of work shift

### **Ideal State**

- Everyone is trained in everything they need to know; and it works
- Highest quality training in the best settings by the best instructors
- Verification of skills—handson demonstration
- Instinctive reaction







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**CERTIFIED DRIVER** 

## Organizational Behavior Toward Training



### **Implementing the Ideal State**

- Create a culture of professionalism by raising the bar for performance and training
- Use measurement tools to verify skills and knowledge
- Use a combination of classroom, online and hands-on training
- Present a standard message and policies through qualified trainers











# Training Disciplines and Advantages



### **Disciplines**

- Dedicated, concentrated and uninterrupted training time
- Opportunity to completely understand material
- Consistent training
- Verification of skills and knowledge
- Network opportunities for drivers
- Policies and procedures explained

### **Advantages**

- Environment conducive to learning
- Class room instruction hands-on practice
- Uniform expectations
- Observation of skills and knowledge practiced
- Learning from each others experience
- Increased procedure adherence—reason for policy understood







## **Training Implementation**



### **Professional Product Driver Certification**

- Drivers allowed time away from routine work for training (2 1/2 days)
- Drivers from different facilities participate in training (10 to 20 drivers per session)
- Certified Skilled Trainers
- Classroom and hands-on rotation throughout training session
- Training materials updated and improved
- Training feedback and behavioral change monitored for effectiveness





## **Training—Praxair Asia**









## **Program Training Modules**



- Rollover Prevention
- Hazard Material Certification
- Fatigue Management
- Vehicle Inspection
- Tractor/Trailer
  Coupling and Fifth
  Wheel Operation

- Drivers Handbook—
  Policy and Procedure
- Transportation Security
- Defensive Driving
- Environmental Spill Containment
- Non-Highway Maneuvering/Backing







## **Training Feedback**



### **Driver Feedback**

- Extensive attention afforded drivers allowing input and dialogue
- Concentrated training away from facility
- Training not squeezed in before or after hours
- Network opportunities for employees
- Opportunities to provide feedback
- The "whys/reasons" of policies were explained
- ✓ Focus on job-related knowledge, skills and behaviors
- Effective hands-on training, testing and case study





## **Training Feedback**



### **Management Feedback (Post Training)**

- Drivers are better trained
- Drivers are confident in job skills
- Better adherence to policies, i.e.: purging, security, loading, backing with cones
- Observed changes to on-the-job behavior
- Sharing correct procedures with co-workers
- Better skilled drivers to assist in training and mentoring new personnel
- Product transfer function observed as consistent and procedural discipline
- More professional behavior





## **Program Results**



- Program entering the fourth year starting 2007
- ✓ 425 North American Praxair Drivers certified as of 2006
- Program goes Global
- Feedback remains positive
- Reduced number high severity accidents
- Improved Operational Discipline





## **Summary**



- Analyze transportation safety performance
- Evaluate organization training and identify opportunities
- Raise professionalism expectations of drivers and instill professional pride
- Implement operational discipline in high level of training
- Assure rigor in program and trainers
- Assure program current with policy and operational standards
- Measure performance and behavioral changes



