Driver and Job Site Safety—Something We Can All Live With

Lee Hoffman
Trucks have many things in common, the most important being the driver or operator.
Learning Objectives

- Attendees participating in this course will be able to:
- Identify driving hazards
- Recognize equipment limitations
- Discuss avoiding distractions while operating equipment
- Review G.O.A.L. – (Get Out and Look) – backing procedures while on jobsites
Safe Operating Speeds, Braking Distance & Equipment Limitations
Rollovers can happen with an empty truck

Don’t let “quitting time” or dispatchers influence your driving
Characteristics of a Mixer

• Booster axle stabilizes the mixer.
  • Too much pressure will reduce traction on drivers and increases the potential for rollover.
  • Too little pressure will impact the steering of the front wheels.
What distance does it take to stop a loaded Ready-Mix truck from 55 mph?
<table>
<thead>
<tr>
<th>Speed</th>
<th>Reaction/Braking Distance</th>
<th>Total Stopping Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 mph</td>
<td>33' / 67'</td>
<td>100'</td>
</tr>
<tr>
<td>40 mph</td>
<td>44' / 125'</td>
<td>169'</td>
</tr>
<tr>
<td>55 mph</td>
<td>58' / 243'</td>
<td>301'</td>
</tr>
<tr>
<td>60 mph</td>
<td>66' / 360'</td>
<td>426'</td>
</tr>
<tr>
<td>65 mph</td>
<td>71' / 454'</td>
<td>525'</td>
</tr>
</tbody>
</table>

Above estimates are for 80,000 lb.
Avoid Distractions
Drivers on Phones:

- Are twice as likely to miss a traffic signal
- Their reaction time is slower to the signals they do detect
- Their risk of causing a crash increases by 400%
- This amount of risk is the same as if the driver were driving legally intoxicated

- **Using hands free equipment does not improve driver performance. It is the phone conversation that distracts!**

- The Harvard University's Center for Risk Analysis estimates that cell phones are the cause of 2600 deaths, and 570,000 injuries each year
This driver was looking at his delivery ticket

Know where you are going before you leave the plant
DO BELTS WORK?

• Lap and shoulder belts reduce the risk of fatal injuries by 45%

National Safety Council
Seat belts?? Seat belts save lives.....

They are required by company policy and the law
G.O.A.L.
GET OUT AND LOOK
Math & Science
"A driver initiated program"

Lance Morgan
David Conklin
In Ontario, the Home Builders Association, Construction Safety Association, The Ontario Ministry of Labor, along with the Ontario Concrete Association have formed an elite partnership in developing a Job Safe policy to improve jobsite safety.
JOB SAFE – Key points

- Where ground conditions are poor; pumps, cranes, and conveyors are used.

- Access ramps to all sides of the forms are provided to keep trucks a safe distance from excavation.

- Well constructed, level access roads on jobsites increase safety for concrete deliveries.

- If feasible, contractors provide signalers to assist drivers while approaching the discharge position.
JOB SAFE – it works!

- Safety awareness regarding concrete deliveries and jobsite conditions have greatly improved.
- With the cooperation from builders and contractors, Job Safe reduces placing workers and equipment in harms way.
JOB SAFE – Enhances typical safety program’s

- Material Suppliers, contractors, subcontractors and builders typically have existing safety programs.

- Safety programs have policies and procedures for their employees that include personal accountability in regard to safety, etc. Lock Out Tag Out, Fall Protection, Circle of Safety, Defensive Driving Programs

- What is the industry standard for preparation and receiving construction deliveries on jobsites?
JOB SAFE – why is it needed?

- Contractors are typically prepared for their concrete, but not necessarily prepared for the *delivery* of the concrete.
- Unfortunately, job sites are congested, cluttered, contain hazards, dark, uneven ground, etc.
- Same day preparation, relocating vehicles, and moving equipment is a proactive approach to safety.
- Currently drivers are asked to place concrete where it is required, often without considering the dimensions and weight of the delivery trucks.
No access ramp and uneven grade – Not “JOB SAFE”
Tight pour area – Not “JOB SAFE”
Tight pour area – Not “JOB SAFE”
Hidden compaction issues – Not “Job Safe”
Uneven access/poor planning. Lack of communication – Not “Job Safe”
Education and Change – a sensible approach.

- We can foster a culture of change, through education, communication and awareness.

- Everyone associated with jobsite should be informed, aware of potential safety concerns and educated on how to help.

- We need to promote a forward thinking approach to jobsite safety.
Our JOB SAFE Mission – (A Driver Initiated Program)

The **JOB SAFE** mission is to develop a culture of change through an elite partnership between ready mix producers, industry associations and the construction Industry by focusing on jobsite safety. **JOB SAFE** will establish guidelines to assist with jobsite safety through education, awareness, and communication.
## Driver jobsite satisfaction questionnaire.

Which one of these is most important to you? This questionnaire will be an invaluable tool for increasing jobsite safety, accessibility and communication.

Please be as honest as possible, the results are anonymous.

<table>
<thead>
<tr>
<th>Features</th>
<th>Not important</th>
<th>Neutral</th>
<th>Important</th>
<th>Very important</th>
</tr>
</thead>
<tbody>
<tr>
<td>A clear and accessible point of entry.</td>
<td></td>
<td>1</td>
<td>16</td>
<td>48</td>
</tr>
<tr>
<td>Stable and level access ramps</td>
<td></td>
<td>2</td>
<td>15</td>
<td>48</td>
</tr>
<tr>
<td>Level ground free of pitch (to avoid leaning)</td>
<td></td>
<td>1</td>
<td>24</td>
<td>40</td>
</tr>
<tr>
<td>Clear, uncluttered jobsite. Free of pallets, debris, rebar, or other construction materials.</td>
<td></td>
<td></td>
<td>25</td>
<td>40</td>
</tr>
<tr>
<td>Use of pumps to avoid damaging property or mixers.</td>
<td>1</td>
<td>5</td>
<td>26</td>
<td>33</td>
</tr>
<tr>
<td>A competent person or signaler to assist with jobsite hazards or backing in trucks.</td>
<td></td>
<td></td>
<td>20</td>
<td>45</td>
</tr>
<tr>
<td>A clearly defined wash down area, with free and easy access.</td>
<td>1</td>
<td></td>
<td>27</td>
<td>37</td>
</tr>
</tbody>
</table>

*What would you like to see change with regard to access to jobs, or general jobsite safety issues. For example, requiring customer to move vehicles before we arrive at the jobsite.*
JOB SAFE Guidelines (Included in brochure)

Pre-job Planning
• Conduct pre-construction JOB SAFE meeting

Placing Your Order
• Specify job address and directions to job
• Indicate names of building and job sites
• Communicate type of job and method of placement
• Schedule accurate start time and spacing

Preparing for Delivery
• Ensure clear access, i.e. place equipment and vehicles clear of entry and exit
• Provide route to and from placement area free of construction materials and debris
• Maintain safe distance to excavation (Rule of thumb: 1 foot for every 1 foot of depth)
• Prepare level, stable ground for truck access. Construct proper access ramps.
• Provide adequate, properly focused lighting
• Use pumps where practical

Day of Delivery
• Plan for traffic control – street and jobsite
• Use signalers where applicable in and out of job.
• Utilize universal hand signals.
• Identify accessible wash out areas
Job Safe success stories

Thanks to Job Safe many of our commercial job sites have become; less congested, more accessible and safer.

Job Safe has assisted with problematic customers and increased safety awareness on their job sites.
Job Safe – Contractor provided signaler
Cooperation from customer provides; Traffic control and a signaler at the pump

This is a successful Job Safe project
Customer provides a clearly defined wash down area.
Committed to job site safety.

The Job Safe mission is to develop a culture change through an elite partnership between ready mix producers, industry associations and the construction industry by focusing on job site safety.

Job Safe will establish guidelines to assist with job site safety through education, awareness, and communication.
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A fully loaded mixer that is carrying 11 yards weighs 75,500 lbs. All measurements are approximate as trucks may differ.
Conclusion – Action Items

- We are asking for support and involvement from your organization to help:
  - reduce jobsite incidents
  - reduce the risk of injury
  - proactively prepare
  - safely streamline the process.

- “JOB SAFE” will be a successful project and we can raise the bar for our industry.
Q & A

Lance Morgan
David Conklin