

<b><i>E&amp;B Oilfield Services Inc.</i></b>	Activity: <b>ALL WORK</b> <b>Vehicle Maintenance</b>		Doc No:	HAZ-ID
			Initial Issue Date	4/1/2015
			Revision Date:	4/1/2016
<b>HAZARD IDENTIFICATION AND ASSESSMENT</b>			Revision No.	1
			Next Revision Date:	4/1/2017
Preparation: Jessica Lee	Authority: Danny Abegglen	Issuing Dept: Safety	Page:	1 of 3

## Purpose

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- **Vehicle Maintenance**

## Key Responsibilities

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- E&B Management will provide multiple different ways to help you keep your vehicle maintained.
- Supervisors / Leads are required to ensure all employees keep their vehicles maintained.
- E&B Employees are required to Keep their vehicles maintained

## Hazard and Risk Identification

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Employees can be exposed to the following hazards due to vehicle breakdowns.

- Being stranded in traffic lanes with heavy traffic flow.
- Break system failures causing accidents
- Flat tires or blowouts causing accidents
- Breakdowns leaving employees stranded in remote area or during inclement weather
- Breakdown leading to missed deadlines and loss of productivity, other employees having to work longer or harder to make up for lost time.
- Breakdowns in the field can lead to improvising and further accidents

## Risk Assessment

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Hazards are classified and ranked based on severity. The program identifies hazards are classified/prioritized and addressed based on the risk associated with the task. (See the risk analysis matrix outlining severity and probability).

Vehicles are used in all aspects of E&B's operations. Vehicles are often used in rough dirt roads. Harsh conditions can lead to breakdowns.



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**E&B OILFIELD SERVICES INC. RISK ASSESSMENT MATRIX – VEHICLE MAINTENANCE**

CONSEQUENCE					PROBABILITY				
Severity	People	Assets	Environment	Reputation	A	B	C	D	E
					Not Done	Rarely	Once a week	Several Times in a Week	Multiple Times in a Day
0	No health effect	No damage	No effect	No impact					<b>X</b>
1	Slight health effect	Slight damage	Slight effect	Slight impact					<b>X</b>
2	Minor health effect	Minor damage	Minor effect	Limited impact				<b>X</b>	
3	Major health effect	Localized damage	Localized effect	Considerable impact			<b>X</b>		
4	Single fatality	Major damage	Major effect	National impact	<b>X</b>				
5	Multiple fatalities	Extensive damage	Massive effect	Global impact	<b>X</b>				

<b>Key</b>	Manage for continuous improvement (Low)	Incorporate risk reduction measures (Medium)	Intolerable (High)
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**Risk Controls/Methods to Ensure Identified Hazards Are Addressed and Mitigated**

The following describes how identified hazards are addressed and mitigated:

- **Slow Down!**
- **Monthly vehicle inspections**
- Flat Tire
  - Check your tires regularly
  - Do walk – rounds around your vehicle
  - Make sure you have a spare tire
  - Make sure you have all the equipment needed to change a flat tire and that the equipment to change a flat tire is the right correct equipment that will fit the lug nuts etc.
- Gas / diesel
  - Fill your vehicle up daily
- Oil / windshield washer fluid / antifreeze / etc
  - Get oil changed regularly

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- Keep extra windshield washer fluid / antifreeze / oil / etc on hand in your vehicle so if you run out or need it you can top something off on your vehicle
- Clean vehicle
  - Wash your vehicle regularly
    - Keep windows clean so you can see out of them
    - Keep headlights clean so they shine bright and not dull
    - Makes E & B Look more presentable with a clean vehicle
  - Keep mud out from under the under carriage of your vehicle so it doesn't ruin the tranny, motor, etc
  - Keep the inside of your vehicle clean
    - Managers / Supervisors ride with you
    - Co - workers ride with you
    - Monthly truck inspections done
- Toolboxes / bed of trucks
  - Keep toolboxes organized so you know exactly where your tools are and you aren't having to dig for them and waste time
- Supervisors regularly review GPS data to watch for unsafe driving (like speed)
- Using GPS in vehicles to locate the vehicle if needed and to keep an eye on speed
- Making sure scheduled maintenance is done on time
- Vehicle check list (a list which inventories the tools in the truck to make sure each vehicle has all tools needed)

## JSA Sample

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The following describes how identified hazards are addressed and mitigated:

Basic Job Step	Potential Injury or Hazards	Mitigation / Tools
Driving the field	Mud on undercarriage causing transition to overheat	Slow down, wash your vehicle and the undercarriage of your vehicle.