

Job Safety Analysis (JSA)

A **Job Safety** Analysis (JSA) is a method that can be used to identify, analyze and record

- 1) The steps involved in performing a specific **job**,
- 2) The existing or potential **safety** and health hazards associated with each step, and
- 3) The recommended action(s)/procedure(s) that will eliminate or reduce these hazards and the risk of a workplace injury or illness.

Hazard Types:

The following hazards should be considered when completing a JSA:

- Impact with a falling or flying object.
- Penetration of sharp objects.
- Caught in or between a stationary/moving object.
- Falls from an elevated work platform, ladders or stairs.
- Excessive lifting, twisting, pushing, pulling, reaching, or bending.
- Exposure to vibrating power tools, excessive noise, cold or heat, or harmful levels of gases, vapors, liquids, fumes, or dusts.
- Repetitive motion.
- Electrical hazards.
- Light (optical) radiation (i.e. welding operations, etc.).
- Water (potential for drowning or fungal infections caused by wetness).

Conducting the analysis:

1. Select jobs with the highest risk for a workplace injury or illness.
2. Select an experienced employee who is willing to be observed. Involve the employee and his/her immediate supervisor in the process.
3. Identify and record each step necessary to accomplish the task. Use an action verb (i.e. pick up, turn on) to describe each step.
4. Identify all actual or potential **safety** and health hazards associated with each task.

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5. Determine and record the recommended action(s) or procedure(s) for performing each step that will eliminate or reduce the hazard (i.e. engineering changes, **job** rotation, PPE, etc.).

Trash Compacting

Wisconsin State Fair Park

Trash compacting is accomplished at the Wisconsin State Fair Park by an assigned multi-person grounds crew. Each full dumpster is rolled into the lift gate and secured in position. The operator then activates the lift gate to lift/tip the dumpster, which is sprayed clean. After being lowered, the dumpster is rolled to a designated area for placement on the grounds.

When performing this activity, always remember to take the following safety precautions:

Steps Always Remember to ...

1. Push/pull full dumpster into Use your body weight by pushing hydraulic lift gate. The dumpsters to move them. Pull to steer/**guide** the dumpster. Wear protective canvas or leather gloves. Drain water from dumpster, if possible, to reduce the weight.
2. Raise hydraulic lift gate to "UP" position, dumping contents.
3. Spray remaining trash residue from Wear eye or face protection when raised dumpster with water hose. Spraying/cleaning the dumpster.
4. Lower hydraulic lift gate and emptied Stay clear from the lowering dumpster back to ground level. area.
5. Pull the empty dumpster from the Push dumpsters to move, pull to lift gate to the designated area for steer/**guide**. Placement on grounds. Wear protective canvas or leather gloves

(Sample)

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JOB SAFETY ANALYSIS	JOB TITLE: Compactor Operator JSA No. _____ Page 1 of 1	DATE: 8/23/99 NEW o REVISED o	
	TITLE OF PERSON WHO DOES JOB: Grounds Crew	SUPERVISOR:	ANALYSIS PERFORMED BY: Troy Tepp, Sentry Insurance
ORGANIZATION: State Fair Park	LOCATION: Refuse Collection	DEPARTMENT: Grounds	REVIEWED BY:
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED ACTION OR PROCEDURE	
1. Pull/push full dumpster into hydraulic lift gate.	<ul style="list-style-type: none"> • Lower back, arm, and shoulder strain. • Pinched hand between gate and rolling dumpster. • Hitting head on horizontal gate member. 	<ul style="list-style-type: none"> • Install larger wheels or properly inflate existing wheels. • Push dumpster to move, pull to steer/guide. • Wear protective canvas or leather gloves. • Install plugs to drain water from dumpster. • Use a tugger or other motorized cart to move dumpsters. 	
2. Raise hydraulic lift gate to "UP" position, dumping contents.	<ul style="list-style-type: none"> • None observed. 	<ul style="list-style-type: none"> • None observed. 	
3. Spray remaining trash residue from raised dumpster with water.	<ul style="list-style-type: none"> • Trash particles and water spray into eyes. 	<ul style="list-style-type: none"> • ANSI approved eye or face protection when spraying/cleaning the dumpster. 	
4. Lower hydraulic lift gate and emptied dumpster back to ground level.	<ul style="list-style-type: none"> • Crushing injury if a person is under the lowering gate. 	<ul style="list-style-type: none"> • Install an automatic lowering alarm. • Install an emergency-stop button on gate frame. • Install a physical barrier across entrance of gate frame to prevent entry. 	
5. Pull empty dumpster from the gate to the designated area for placement on the grounds.	<ul style="list-style-type: none"> • Lower back, arm, and shoulder strain. 	<ul style="list-style-type: none"> • Repair/improve condition of lot pavement. • Install larger wheels or properly inflate existing wheels. • Push dumpsters to move, pull to steer/guide. • Wear protective canvas or leather gloves. • Use a tugger or other motorized cart to move dumpsters. 	