

COLORADO DEPARTMENT OF TRANSPORTATION
JOB SAFETY ANALYSIS



Activity Name: Sampling of Aggregates		Activity Number: CP-30	
Activity Description & Purpose: Sampling from stockpiles, from a belt discharge and from a windrow.			
Date Prepared: 1-Jun-09		PPE Required	
Typical Equipment		Typical Crew Size	Typical Material
Description	Class Code	(Crew sizes may vary due to different conditions throughout the state)	Description Class Code
Shovel Sample Container		1	Aggregate
Sequence of Job Tasks		Potential Hazards	
Safe Job Procedures		Never	
Sampling from Stockpiles			
1. Check in with aggregate supplier to make sure it's safe to obtain samples.	1. Moving equipment around the stockpiles to be sampled.	1. Communicate with personnel to let them know you are going to be sampling stockpiles.	Sample without notifying appropriate personnel.
2. Sample from the bottom third, the middle and the top third of the stockpile.	2. Slipping and falling while walking up or down the stockpile.	2. Maintain footing and balance while climbing up or down stockpile. 3. Maintain footing and balance while climbing up or down stockpile.	1. Carry shovel with the blade up. 2. Lift or carry more weight than you are capable of lifting/carrying. 3. Use a non-approved sample container.
3. Repeat sampling process on the exact opposite side of the stockpile (180 degrees).	3. Slipping and falling while walking up or down the stockpile.	4. Maintain footing and balance while climbing up or down stockpile. 5. Stay properly positioned when using the shovel, carrying the sample and placing it in the vehicle.	1. Lift or carry more weight than you are capable of lifting/carrying. 2. Use a non-approved sample container.
Sampling from a belt discharge.			
1. Find a stable platform or other means to safely stand close enough to the belt to sample the aggregate.	1. Slipping off the steps while climbing up to the platform. 2. Falling off the platform.	1. Maintain 3 points of contact while climbing up to the platform. 2. If platform is more than 6 feet above the ground and does not have handrails, use appropriate fall protection. 3. Use a rope to raise and lower sample container. 4. Stay properly positioned when using the shovel, carrying the sample and placing it in the vehicle.	1. Lift or carry more weight than you are capable of lifting/carrying. 2. Use a non-approved sample container.

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Shovel		1	Aggregate
Sample Container			
Sequence of Job Tasks		Potential Hazards	Safe Job Procedures
Never			
Sampling from processed Windrows			
1. Remove material from one side toward the center to the full depth until a representative face is exposed.	1. Overexertion while using the shovel to move the material.	1. Stay properly positioned when using the shovel, carrying the sample and placing it in the vehicle.	
2. After channeling the exposed face from bottom to top, obtain a sample using a flat square end shovel.	1. Overexertion due to poor body mechanics.	1. Maintain footing and balance. 2. Stay properly positioned when using the shovel, carrying the sample and placing it in the vehicle.	1. Lift or carry more weight than you are capable of lifting/carrying. 2. Use a non-approved sample container.
Notes, Specifications & Special Instructions		Other Related Resources	