

**PRIMARY CRUSHER SHIM ADJUSTMENT –
Training Program**

Company Name:	Equipment Identification: PRIMARY CRUSHER Make: TRAYLOR
Mine Name:	
Date of Analysis:	

Task 1: PREPARATION/ JOB ASSIGNMENT

Learner will be able to demonstrate how to conduct a safe and thorough pre-repair inspection. Learner will also be able to explain job duties, why they are conducted, any associated risk, and how to implement appropriate controls. A thorough pre-repair inspection includes the following duties:

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Risk Level 1=Important 2=Very Important 3= Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Discuss job assignment	Learner will know his duties			Multi-staff assignment
Clean off/empty belts/crusher	Eliminate falling objects & debris			Discuss how to clean out system
Lock out/tag out	Zero potential for movement			Discuss proper company lo/to procedures
Install divider plate	Prevent falling materials & allow production to continue			Discuss crane inspections Dangers of falling material
Conduct a work place examination	Ensure a safe area/eliminate any hazards			Regulation & hazard recognition refresher
Acquiring tools/equipment	Use proper tools meant for the job to eliminate accidents			Discuss PPE & Hazcom

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Task 2: SHIM INSTALLATION/REMOVAL

Learner will be able to demonstrate how to safely perform the job. Learner will also be able to explain job duties, why they are conducted, any associated risk, and how to implement appropriate controls. Maintenance duties include:

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Risk Level 1=Important 2=Very Important 3= Critical	Satisfactory/ Needs Work	Procedures/Risk Resolution/ Notes/Comments
Loosen tension rod nuts	Allow the jaw to be opened			Use proper tools
Remove jaw cover, catwalks ,handrails	Cleaning and gain safe access			Discuss safe access, fall protection
Remove grease/ dirt buildup	Check for proper adjustment			Discuss PPE protection & HazCom, Shim falling
Start rigging come-a- longs/chains	Open the jaw			Discuss come-a-long/chain inspections
Inspect stop blocks	Keep the toggle block shim rest from falling			Discuss their importance
Remove toggle nut	Provide access to remove the shim clamp			Discuss pinch hazards
Remove shim clamp	Provide access to the shim itself			Discuss pinch hazards/communications/concentration levels/ Suspended loads
Open the toggle block	For the removal of the shim			Stress the opening size hazards
Attach chain & hoist the new shim	(average 100lbs per shim)			Discuss proper hoist procedures again
Install/remove new shim	Proper opening size			Discuss working around/under suspended loads
Use come-a-long to reverse jaw opening	For the proper size opening			
Verify jaw opening				
Inspect shim block bolt condition	Verify their condition for thread damage etc.			
Replace shim clamp				Discuss pinch hazards/suspended load hazards
Tighten spring nuts per specs (21.5")	Assure proper jaw operation			If not proper, the rods may be damaged, or springs break

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Remove come-a-longs				
Replace overs/handrails/catwalks	Provide safe access/protection			

Task 3:CLEANUP/START-UP

Learner will be able to demonstrate how to conduct a safe and thorough post-repair inspection Learner will also be able to explain job duties, why they are conducted, any associated risk, and how to implement appropriate controls. A thorough post-repair inspection includes the following duties:

Job Steps	Importance Narrative (Consider Safety, Production, and maintenance)	Risk Level 1=Important 2=Very Important 3=Critical	Satisfactory Or Needs Work	Procedures/Risk Resolution/Notes/Comments
Remove protective plate	Return crusher for production			Discuss fall protection, suspended loads
Store the plate for future use				
Gather tools				Discuss hand tool safety
Perform walk around examination	Look for left items/hazards			
Remove all locks	Allow operation of crusher			Discuss lo/to policy
Account for all personnel				
Store the crane control box				

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