COLORADO DEPARTMENT OF TRANSPORTATION

JOB SAFETY ANALYSIS

Activity Name: Tensile testing of Steel Reinforcing Bar			**Activity Number: ASTM A370 Rebar**	
Activity Description & Purpose: Verification of the tensile properties of steel reinforcing bar				
Date Prepared: 08/18/2009				**PPE Required**
Typical Equipment		**Typical Crew Size: 1**	**Typical Material**	1-safety toe boots 2-safety glasses / face shield 3-hearing protection 4-gloves
Description	Class Code	(Crew sizes may vary due to different conditions throughout the state).	Description / Class Code	
See associated test procedure			reinforcing bar 602	

Sequence of Job Tasks	Potential Hazards	Safe Job Procedures	Never
1-Measure Specimen Length			
2-Mark required specimen length			
3-Cut specimen	1-cutting injury 2-eye injury 3-hearing injury	1-Wear safety glasses / face shield 2-Wear hearing protection	Operate chop saw without prior training.
4-Remove flashing	1-eye injury	1-Wear safety glasses / face shield	
5-Measure diameter of specimen			
6-Measure gap			
7-Measure deformations			
8-Mark test section	1-hand injury		
9-Place jaws in test machine	1-foot injury 2-falling hazard 3-lifting hazard 4-hand injury	1-Wear safety toe boots 2-Insure ladder stability	
10-Place spacer plates in test machine	1-foot injury	1-wear safety toe boots	
11-Adjust cross head spacing			
12-Place grips in test machine	1-foot injury	1-wear safety toe boots	
13-Clamp specimen into test machine	1-eye injury 2-hand injury	1-Wear safety glasses / face shield 2-Wear gloves	operate test machine without prior training.
14-Apply test load			
15-Remove test specimen from test machine			
16-Measure specimen diameter at break			
17-Measure specimen elongation			
18-Remove grips	1-foot injury	1-Wear safety toe boots	

Notes and Specifications Instructions	Other Related Resources