City of San Angelo 72W College Ave 2nd Floor San Angelo TX 76902



Worksite:	Instructor:	Date/Time:
Topic C325: Heavy Concrete (B)		
bridges and interchange ramps; it is an extrem work practices must be observed in order to	ely versatile material. Regardless of avoid injury. All personnel mus	oundations for homes, to building huge highway of the method of construction being utilized, safe at comply with OSHA's Concrete Construction
standards to protect against accidents and injur Following are OSHA safety procedures for Construction:		For tilt-up work, make sure all
Precast Concrete: Precast concrete wall unit wall panels must be adequately supported to p collapse until permanent connections are contembedded or otherwise attached to tilt-up supporting at least two times the maximum into	revent overturning and to prevent mpleted. Lifting inserts that are wall panels must be capable of	required wall anchors are cast in the wall when it is formed on the ground.
to them; lifting inserts for other pre-cast members must be capable of supporting four times the load. Lifting hardware shall be capable of supporting at least five times the maximum intended load applied or transmitted to the lifting hardware. Only essential employees are permitted under pre-cast concrete that is being lifted or tilted into position. Tilt-up work: Make sure all required wall anchors are cast in the wall when it is formed on the ground. Install appropriately sized bolts and shackles to do the lift and attach braces to the wall before the lift. After the wall is tilted into place, secure the braces at an appropriate angle before the lifting cables are released. Stand clear of the wall and out of its drop zone until it is securely braced. Use appropriate fall-protection equipment to walk or straddle upper wall areas.		
 Designed by a qualified designer and Vertically aligned and spliced to pre the splice level. Each tier also must be 	the erected shoring must be inspect event misalignment. Adequately brace diagonally braced in the same two	
 Adjustment of single-post shores to raise formwork must not be made after the placement of concrete. Reshoring must be erected, as the original forms and shores are removed, if the concrete is required to support loads in excess of its capacity. 		
<u>Vertical Slip Forms:</u> Forms must be designed and vertical supports must be positioned in succeptable of the power supply or lifting mechan slip forms must be provided with scaffolds or <u>Lift-Slab Operations:</u> Jacking equipment is supporting at least two and one-half times	ch a manner that the loads do not exechanical dogs or other automatic horisms occurs. The predetermined sawork platforms where employees aroust be marked with the manufacthe load being lifted during jacking the load being lifted during jacking the load being operation, shall be the load being operation, shall be the load being lifted during jacking operation, shall be the load being operation, shall be the load being lifted during jacking operation, shall be the load being lifted during jacking operation.	turer's rated capacity and must be capable of ing operations and the equipment must not be be permitted under a slab being lifted and is not
Conclusion: Construction operations that involve placing and lifting large quantities of concrete are hazardous. Everyone involved in Concrete Construction must apply these safe work practices. Watch out for yourself and for the other guy in order to avoid accident and injury.		

Employee Attendance: (Names or signatures of personnel who are attending this meeting)

 $These \ guidelines \ do \ not \ supersede \ local, \ state, \ or \ federal \ regulations \ and \ must \ not \ be \ construed \ as \ a \ substitute \ for, \ or \ legal \ interpretation \ of, \ any \ OSHA \ regulations.$