





Soft Tissue Injury Prevention Tool

Tip Sheets Trade: Concrete Wo	rk
Job Task: Concrete Place	cement - Muck Raking
General Tasks	Common Tools
Raking and pulling concrete immediately following and in conjunction with concrete pour filling low spots and maintaining an adequate concrete depth.	➢ Concrete Rake
 Potential Risk Factors Risk Factors can lead to increased risk for Work Related Musculoskeletal Disorders (WMSD's) Moderate Forward Back Bending Moderate Forward Back Bending Moderate Risk when frequently or sustaining forward bending for extended periods. May be a HIGHER RISK for concrete pours of 1000 yards or more. High Hand Grip Force with Awkward Wrist Postures Moderate Risk when sustained high grip force of rake handle with awkward wrist postures for extended periods. May be a HIGHER RISK for concrete pours of 1000 yards or more. Highly Repetitive Motion with High Forceful Hand Exertions Moderate Risk when sustained high grip force of rake handle with repetitive arm/shoulder movements for extended periods. May be a HIGHER RISK for concrete pours of 1000 yards or more. 	 Possible Solutions Awkward Posture & Heavy Gripping Solutions: Minimize awkward back postures by rotating every 1-2 hours between raking and other finishing tasks. Stretch frequently, particularly performing back and upper extremity stretches. Utilize a power screed as often as possible. Use of a power screed also pulls concrete and helps to minimize concrete raking. Evaluate the use of alternative handles that attach to the shaft of the rake to promote upright postures, improve leverage. Use the best slump consistency possible to minimize physical demands of raking to spread concrete. Potential Benefits Increases blood flow and reduce muscle tension. Reduces exertion of lower back. Increases productivity. Reduces strain on hand and arm muscles.
Feasibility • Engineer Control	
 Single Person Power Screed Engineer Control Back Buddy Handle Administrative Control Work Practice Control Estimated Cost of Intervention \$919.97 for a Single person Power Screed Depends on manufacturer 	