Los Rios Community College District – Job Safety Analysis

Job Category: Science/Vocational/Technical - Construction/Engineering/Drafting (Instructor/Instructional Assistant/Laboratory Technician)(For Specifics See Below*) Required and/or recommended personal protective equipment: Protective clothing, gloves, goggles, face shield **Sequence of Basic Job Steps Potential Hazards** Recommended Action or Procedure Standing for long periods of time Leg/knee problems, back problems Follow good health physiology practices: Do not lock knees, exercise good posture, change stance, and move back and forth. Stretch, exercise and maintain appropriate body weight. Avoid fatigue. Audio visual presentations Muscle strain, back injury Apply proper technique to lifting and moving heavy equipment. Use mobile carts whenever possible. Physical harm Contact college police for assistance and Chemically, emotionally and psychologically imbalanced students protection if student appears to be out of control. Use non-aggressive communication skills. Wear seat/shoulder belts at all times. Follow safe Driving and parking vehicles Vehicle accident resulting in personal injury driving rules/regulations. Practice defensive driving. Park in legal spaces, not obstructing traffic. Do not consume alcoholic beverages or other intoxicants prior to or during work. Lock vehicle when unattended. Park close to Criminal activity entrance or in well-lit areas. Lock office door if working late at night and alert Office work (after hours, evenings/weekends) Physical harm college police of your presence on campus. Portable power saws Cuts and amputation Employees must be trained in proper use and saw safety. Upper half of the saw blade must be permanently guarded. Bottom half of the saw blade must have a hinged guard. Anti-kick lock devices must be used during ripping. Radial arm and table saw Cuts and amputation Hoods on guards must cover exposed saw teeth. Radial saws must not be able to pass the front edge of the table and automatically return to the table back. Pneumatic nailers and staplers Puncture wounds and eye injuries Safety devices must be installed on nailers and staplers operating at over 100 psi. When not in use, pneumatic tools must be disconnected from the air supply. Do not use devices within 10 feet of another All Eye injuries worker. Proper use of cement mixer. Wear gloves and Mixing cement and concrete Back injury, muscles strain/sprain, slipped disk, fingers caught in machinery goggles. Use proper body mechanics for lifting/moving heavy objects.

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Sequence of Basic Job Steps	Potential Hazards	Recommended Action or Procedure
Grinders	Flying metal in eyes, superficial skin abrasions	Safety goggles, gloves and face shields
Welding	Flying bits of hot molten metal	Safety goggles, gloves and face shields
Stress testing equipment	Flying bits of concrete and gravel	Eye goggles and gloves.
Hardness testing equipment	Shattering of metal, flying scraps of metal or bits of	Eye goggles and gloves.
	concrete and gravel	
Climbing ladders	Falls causing injuries	Proper ladder for the job-no use of unsafe ladders-no splicing ladders together. Set the straight ladder against the wall at the proper angle of about 75 degrees with the floor or ground. The horizontal distance from the wall to the foot of the ladder should be ¼ the length of the ladder. Do not lean the ladder against a moveable object. Protect the man on the ladder, have an employee stand guard in dangerous circumstances, or when ladder has to be in front of a doorway, or if there is a danger of a person or vehicle bumping into the ladder. Always face the ladder when going up or down. Do not carry tools or materials while going up or down the ladder. Strap them over the shoulder, or raise and lower with a rope on a bucket. Ladders should be climbed properly one worker at a time. Ladders should have safety feet and placed with secure footing. Ladders with broken rungs or steps should not be used. Ladders should not be erected on boxes or other supports. Ladders should not be placed in front of doors or against windows. Ladders should extend 3 feet above roof if climbing to the roof. Tops of stepladders should not climb higher than the third rung from the top of straight ladders and second step on stepladders.

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Trenching	Cave-ins, equipment or spoils collapsing into trench onto workers	Permit from Cal/OSHA required prior to placing workers in a 5 feet or deeper excavation. Shore, bench, slope to protect against cave-ins. Locate spoils 2 feet or more from the edge. Provide a safe means of egress every 25 feet. Do not excavate near building foundations, walls, sidewalks, etc.
Date: July 1, 1991 / Analysis By: Rich Haro, Clarice Bettencourt : R.	Striking underground utilities Falls and pinch point injuries	Erect barriers around excavations. Contact underground services alert (USA). Determine location of underground utilities from owners, utility companies, etc. Dig carefully for the first 6 feet, spotting for possible utilities. Workers are prohibited from riding in power shovel, backhoe buckets or any other equipment not designed for this purpose.

^{*}Note: This Job Safety Analysis form includes the following positions in the Los Rios Community College District: Instructor – Construction; Instructor – Drafting; Instructor – Engineering; and Laboratory Technician – Builder/Maker