

COST/TIME SAVINGS

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ACTIVITY	CHALLENGE	IMPROVEMENT	COST SAVINGS	TIME/LABOR SAVINGS
<p>NMC San Diego, CA</p>	<p>Lifting over shoulder height in pharmacy lotion compounding station</p> 	<p>Hydraulic scissors lift table adjusts to height of technician</p>	<p>\$149,000 over ten-year life cycle of table</p>	<p>Increased efficiency and decreased downtime by reducing incidence of WMSDs among pharmacy technicians</p>
<p>NAS JRB, Willow Grove, PA</p>	<p>Deteriorated local exhaust ventilation in spray paint booth.</p> 	<p>Removal of paint residues from fans and ductwork. Establishment of formal preventive maintenance plan.</p>	<p>Extended life of paint-spray booth's local exhaust ventilation system. Reduced time ground support equipment out of service.</p>	<p>Decreased time required to remove corrosion and to repaint ground support equipment.</p>
<p>NASNI, San Diego, CA</p>	<p>Repairing number 3 doors on FA-18 aircraft using hand held power tools.</p> 	<p>Fixture to hold door in place and allow partial rotation and reduced-vibration powered hand tools.</p>	<p>\$181,300 over ten years</p>	<p>Reduced time to repair door from 15 to 11 days.</p>
<p>Public Works Center, Philadelphia, PA</p>	<p>Paint spray booth needed updated ventilation system.</p> 	<p>New exhaust system, improved lighting, installation of pressure gauge.</p>	<p>Avoidance of exposure to airborne mists, vapors, and fumes from paints and solvents with resulting workers' compensation costs.</p>	<p>Time to complete spray painting tasks cut in half.</p>
<p>SIMA San Diego, CA</p>	<p>Manual transporting of heavy, awkward portable welding equipment</p> 	<p>Developed fixture that increases maneuverability and distributes the load between two people.</p>	<p>Reduced risk of injuries and WMSDs of the back, arms, and shoulders with resulting workers' compensation costs.</p>	<p>Decreased time getting to and from jobsites. Decreased time needed to recover from fatigue before starting welding tasks. Increased welding efficiency.</p>

<p>Naval Hospital, NAS Rota, Spain</p>	<p>Streamline cataloging of hazardous materials.</p> 	<p>Industrial hygienists use cross-referenced databases to assess health risks associated with HM.</p>	<p>Avoidance of future HM exposure and injury with resulting workers' compensation costs.</p>	<p>Industrial hygienists complete HM risk assessments more rapidly and are available to spend time on other services.</p>
<p>PWC San Diego, CA</p>	<p>Accessing roll-offs and redistributing HW</p> 	<p>Remote control <i>hazardous waste rake</i> attached to forklift</p>	<p>\$5,200.00 to \$8,800.00 annually per facility</p>	<p>Reduction in time from 15 to 20 minutes to 2 to 3 minutes per HW redistribution</p>
<p>SIMA, Coronado, CA</p>	<p>Grinding with heavy, awkward, strongly vibrating conventional grinder</p> 	<p>Substitution of pneumatic grinder.</p>	<p>Decreased risk of irreversible HAVS and carpal tunnel syndrome with resulting workers' compensation costs</p>	<p>Time to complete repair projects reduced by 25%</p>
<p>NASNI, San Diego, CA</p>	<p>Flapwell repair in awkward postures risked WMSDs</p> 	<p>Fixture to hold flapwell protects flapwell and allows mechanic to work on any portion of flapwell in comfort.</p>	<p>No new WMSDs reported</p>	<p>Corrosion control time spent on flapwell reduced 50%</p>
<p>Branch Medical Clinic, Pearly Harbor, HI</p>	<p>Muskuloskeletal injuries account for 42% of all medical releases of active duty Navy members.</p> 	<p>Sports Medicine and Rehabilitation Therapy (SMART) Centers committed to return to readiness programs</p>	<p>Return to active duty in timely manner. Avoidance of future injuries through education.</p>	<p>Since opening in July 2002 successfully returned 78% of patients to active duty status within 30 days of visit to SMART vice prior 90 day process</p>

<p>NNSY, Norfolk, VA</p>	<p>Manually pulling electrical cable weighing 7 lbs/linear ft</p> 	<p>Mechanically assisted cable pulling process</p>	<p>Decreased risk of injuries. Cost reduction up to 50%; combined savings over \$118,000.00.</p>	<p>Labor reduction from 30 - 70 workers to 7 - 12 workers per cable pull</p>
<p>PWC, San Diego, CA</p>	<p>Manually pulling heavy tarps over dump truck beds</p> 	<p>Automatic system for covering truck beds</p>	<p>Decreased injuries and cumulative trauma disorders. Direct savings of \$74,970.00 annually</p>	<p>Increased productivity from 25 minutes/truck to 10 minutes/truck</p>
<p>Various</p>	<p>Mobile cranes collapse when load limit exceeded</p> 	<p>Load Moment Indicators or Load Indicating Devices installed on 132 mobile cranes at 28 locations</p>	<p>Avoidance of serious injuries and destruction of millions of dollars worth of equipment and materials</p>	<p>Decreased downtime by reducing the number of crane-related mishaps and personnel injuries</p>
<p>PWC, San Diego, CA</p>	<p>Manual cable cleaning and lubrication</p> 	<p>Automated cable lubrication system</p>	<p>Reduced annual cable cleaning costs by 89%, from about \$320,000.00 to about \$34,000.00</p>	<p>Increased efficiency and decreased downtime by reducing incidence of hand injuries among cable cleaners</p>
<p>NUWC, Newport, RI</p>	<p>Manually transferring towed array test cable reels weighing up to 7,000 lbs.</p> 	<p>Mechanical cable reel handler</p>	<p>Avoided approximately \$67,500.00 annually on about 225 reels/ year</p>	<p>Labor reduction from of 4 - 6 workers to 1 worker to transfer a cable reel, increasing efficiency and reducing risk of injuries</p>

<p>NADEP, North Island, CA</p>	<p>Vibration from rivet guns exposed workers to serious risk of hand-arm vibration syndrome</p> 	<p>Remote control device reduces transmission of rivet gun vibration to user's hands, arms, and upper body</p>	<p>Reduced annual costs of F/A-18 maintenance by about \$29,669.00</p>	<p>Eliminated risk of work-related vibration injuries and reduced turn around time on F/A-18 aircraft by 20 hours/unit</p>
<p>SIMA, Norfolk, VA</p>	<p>Off-site training of new forklift operators and periodically re-qualifying experienced operators</p> 	<p>Developed in-house forklift operator training classes</p>	<p>Estimated annual direct cost avoidance of \$50,600.00</p>	<p>Decreased downtime by eliminating need to send forklift operators off-site for periodic forklift training</p>
<p>NFESC, Port Hueneme, CA</p>	<p>OSHA ventilation requirements for spray-paint operations costly and impractical for corrosion control and paint hangars</p> 	<p>Obtained revised OSHA local exhaust ventilation requirements for corrosion control and paint hangars</p>	<p>Initial cost savings of about \$250,000.00 per new hangar and life cycle cost avoidance of another \$250,000.00 per hangar</p>	<p>Improved protection of aircraft maintenance workers from fire and explosions and from inhalation hazards during aircraft maintenance operations</p>
<p>IH Dept., NH, Rota, Spain</p>	<p>Numerous respiratory illnesses and allergic reactions reported by workers in an office building. Indoor air quality investigation revealed fungus contamination in building's air handling system.</p> 	<p>Navy microbiologist identified fungal contaminants and recommended method for decontaminating building's air handling system and for preventing recontamination</p>	<p>Navy experts resolved indoor air quality incident, avoiding about \$9,000.00 in cost to bring consultants from U. S. to identify air contaminants and resolve this incident</p>	<p>Downtime and medical evaluation due to respiratory illnesses and allergic reactions. Building returned to normal levels after building decontaminated</p>