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| #1 Process  (if applicable) | Using a disc and belt sander |
| #2 Equipment | Belt Sander |
| #3 Personal Protective Equipment (PPE) | Safety glasses and hearing protection, plus minimum shop PPE. |
| #4 Environmental /  Ventilation controls. | * No loose Clothing, No Jewlery or accessories, Long Hair must be contained * Ensure the equipment is secure so it does not move when in use. A dust collection system (Vacuum machine) should be attached in the cutting area or to the blade guard. |
| #5 Required training or approval | * Review and observe general safety practices outlined in the Machine Shop Equipment Safety Guidelines. * Refer to the manufacturer’s operating manual for all operating procedures. * If you are not sure, ask crew members or Kevin for help. |
| #6 Inspection requirements before use | PRE-Operation:   * Always begin by setting-up your work area safely to avoid the following:   Trip hazard, uncomfortable working conditions, electrical hazards, crowded work spaces (other students) and other dangerous situations   * Use in such a way that the extraction systems provided, remove dusts * Ensure the disc and belt are not damaged. No missing, loose or frayed parts * Ensure work tables are not more than 2-3mm away from abrasives - Avoid pinch points * Plan your work to ensure free work piece movement and prevent interference * Ensure appropriate guarding is in place * Identify ON/OFF switch. * Inspect General condition of working area |
| #7 Safe operating procedures or precautions | Operation:   * Ensure all other students are clear of immediate work area (spark path) * Keep fingers, hands and materials free from pinch points when machine is running * Allow abrasive to reach speed (when starting) before slowly moving work piece toward disc/belt * Use smooth, slow fluid motions. Never make abrupt fast movements * Increase cutting/grinding/sanding force gradually * Angle work to favor the direction of abrasive movement. Not against (See corresponding training video on Western Engineering OWL site: “Engineering Shop Training” * Use entire abrasive area when grinding to ensure even wear of belts and discs * Turn machine off to make any adjustments. Unplug for maintenance (disc/belt changes) * Ensure guarding is in place before re-starting grinder.   POST-Operation:   * Switch off sander before: * Removing waste material * Drying excess cooling water from any exposed metal surfaces * Brushing off sanding dusts * Ensure disk and belt are still in good condition. If not notify the technician |
| #8 Chemicals/ spill procedures/waste disposal | Check the dust collection system and make sure it is properly maintained and dust is removed frequently. |
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