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| Author: Jessie Zhao Title: Prototyping Labs Technical Assistance Date: 8/16/2022 | |
| #1 Process  (if applicable) | Cutting or grinding material (wood, plastic, or metal) freehand with an abrasive wheel or disk. |
| #2 Equipment | Angle grinder |
| #3 Personal Protective Equipment (PPE) | * Eye protection * Hearing protection * Minimum shop PPE |
| #4 Environmental /  Ventilation controls. | * Make sure other users in the shop are wearing the appropriate PPE. |
| #5 Required training or approval | * Angle grinder training * Review and observe general safety practices outlined in the MKRSPC MNL. * Refer to the manufacturer’s operating manual for all operating procedures. |
| #6 Inspection requirements before use | * Ensure you have a suitable, safe work area. * Check that the disk, guards and handle are secure. * Check that the safety guard covers half the disk. * Examine the power lead and plug for obvious damage. * Use only in designated area. * Ensure the appropriate disk is correctly in place. * Work piece - Ensure work piece is securely clamped and is free of any loose portions which could damage grinding wheel or disc * Ensure appropriate guarding is in place on grinder * Identify ON/OFF switch * Inspect electrical cord |
| #7 Safe operating procedures or precautions | * Do not plug in until all adjustments have been made. * Do not fit a grinding disc that has been dropped, damaged or become wet at any stage. * Ensure your work piece is secured and supported. * Keep fingers, hands and clothing clear of the disc. * Use the grinder only in a designated work area – preferably behind a portable screen. * Be aware of flying hot sparks. Hold the grinder so that any sparks fly away from you and anyone nearby, and away from all flammable materials. * Allow the grinder to reach operating speed, then apply load gradually. Maintain a constant pace to avoid uneven surfaces. * Maintain complete control. Always operate with both hands. Keep a proper and steady footing * Do not apply excessive force and avoid prolonged use. * Avoid prolonged use and high pressures. This could overheat the motor. * Violent kickback can occur, particularly when cutting. * Leather gloves must be worn when handling hot metal. * Turn off after use. Do not place the grinder down until the disc has stopped rotating. |
| #8 Chemicals/ spill procedures/waste disposal | Avoid waste material build up and clean as you go. Check the dust collection system and make sure it is properly maintained and material is removed frequently. |
| Author Signature: Date: | |