Template only MUST modify to site conditions

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| Site / Area: |  | Date of Assessment |  | Risk Assessment # | **046RA** |
| Completed by (name) |  | Signature |  | | |
| In Consultation with: |  | Signature |  | | |
| Identify / describe activity, equipment, area or event you are assessing: | | | Grinder - Cordless | | |
| Authorised by: |  | Signature: |  | Date: |  |
| **In conjunction with this risk assessment, training / education and development of a relevant SOP may be required.** | | | | | |
| **Step 1:** **Identify the hazard/s / Impact:**What do you believe are the hazards? What could happen? | | **Step 2: Assess the potential risks:**  What do you believe are the risks?  How could this happen? | | **Step 3: Reducing the risk:**  What do you believe can be done to reduce the risk?  Controls | |
| * **Entanglement** | | * Long hair, loose clothing, rags and jewellery could become entangled in the moving parts of the equipment | | * Hair ties / hair nets / hats can be used to secure long hair. * Ensure jewellery and accessories are not worn or secured when operating equipment. * Ensure clean working environment, no loose rags. | |
| * **Impact and cutting injuries** | | * The exposed moving disc presents a risk to an operator’s hands and body parts * Potential for disc to fragment on use * Inappropriate accessories used on the angle grinder may result in the disintegration of the disc or work piece being ejected * Material being worked on becoming a projectile | | * Ensure operator’s hands and body parts are kept clear of moving grinding disc during operation and maintenance * Ensure worker / others check the disc prior to use for flaws or cracks * Ensure the appropriate discs are used for specific tasks * Ensure only attachments designed for the size of the angle grinder are used * Ensure the attachment centre hole matches the size of the angle grinder spindle hole * Ensure the maximum speed marked on the attachment is higher than the maximum speed of the angle grinder * Ensure guards are fitted securely in the correct position before use * Worker / others are competent in the use of cordless angle grinder * Worker / others don’t apply excessive pressure to the work piece during operation * Worker / others to ensure angle grinder has reached its speed before use * Worker / others to position their body so it is not directly behind the angle grinder * Worker / others to ensure work piece is secure * Ensure the thickness and diameter of attachments are within the angle grinder ratings * Ensure flanges and nuts are free from wear for damage before use * Ensure the auxiliary handle is attached to stop the angle grinder making contact if grinder kicks back | |
| * **Electricity** | | * Workers / others can sustain an electric shock or possible electrocution | | * Ensure battery charger does not have damaged electrical cords prior to use * Ensure battery charger and battery is safe to use, no cracks or housing is not broken or damaged * Use of a RCD when plugged into a GPO for charging * Charger to be used only in a dry environment * Charger to be checked prior to use * Charger to be tested and tagged and current tag fitted * Battery to be charged in well ventilated environment | |
| * **Noise** | | * Operation of the grinder can result in high noise levels | | * Ensure appropriate PPE (Hearing protection) is worn whilst operating the equipment * Ensure personnel in vicinity are aware of usage and not exposed to operating noise * Minimise workers / others in vicinity of operation of grinder | |
| * **Vibration** | | * The worker / others could be exposed to hand and arm vibration as a result of vibration generated when operating | | * Take regular breaks from continuous operation * Wear appropriate PPE (Anti vibration gloves) especially in cold weather * Conduct periodic maintenance to ensure smoother operation and less vibration * Use of auxiliary handle to minimise fatigue and vibration * Worker / others to take regular breaks | |
| * **Friction** | | * Friction injuries may occur from contact with grinder disc | | * Ensure workers / others hands and body parts are kept clear of moving grinding disc * Ensure grinding wheel has stopped and allowed to cool before replacing worn disc with new | |
| * **Slips, Trips, Falls** | | * Poor housekeeping practices allowing the build-up of waste materials could result in a trip hazard * Inappropriate placement of objects (electric cord, spare materials, bags, etc.) in the immediate vicinity of the work area may result in a trip hazard | | * Ensure appropriate cleaning and housekeeping practices are maintained to minimise the risk of a slip, trip or fall * Ensure work area is controlled, to prevent unnecessary personnel entering work area (Bunting) * Ensure workers / others that may be working in the vicinity are aware of work being undertaken | |
| * **Fire and Explosion** | | * Sparks created during the grinding process may become an ignition source if flammable material is in the immediate vicinity (flammable liquids, wood dust, rags) | | * Ensure the angle grinder is not used near flammable materials and good housekeeping practices are maintained * Ensure access to firefighting equipment is readily available * Emergency procedures are known * Complete Hot Work permit. | |
| * Other: | |  | |  | |
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| **Review hazard / risk assessment if task or circumstances change & at intervals appropriate to the level of risk (minimum 5 years)** | | | | | | | | |
| **Step 4: Monitor & Review:** | | | | | | | | |
| Were the controls effective? | | | | Were there any unforeseen hazards / incidents? | | | | New controls |
| Yes |  | No |  | Yes |  | No |  |
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