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
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| * **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
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| * **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
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| * **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
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| * **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
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| * **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
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| * **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.
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| * 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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