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|--|---|--|--------|----------------------|--|---|---|----|------------------|----------------------------|--|
|  | office/meeting space with possible exposure to biological agent |  |        | Psychological impact | Mechanical ventilation (HVAC System) or natural ventilation(Opening of windows and doors); Combination of Air-conditioning system and natural ventilation; Limitation to meeting time frame (as short as possible) | 3 | C | II | Mostly effective | Site manager or Supervisor | Employment and Labour Code of Practice: Managing COVID-19 virus at workplace; ISO 45001:2018; Environmental Regulations for Workplace;Facilities Regulation;ASHRAE guidelines. |
|  |   |  |        | Long term COVID-19   |  | 3 | C | II | Mostly effective | Site manager or Supervisor |  |
|  |   | Possibly exposed to Tuberculosis bacterium | Health | Tuberculosis (TB)    |  | 3 | C | II | Mostly effective | Site manager or Supervisor |  |

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|--|---|---|---|--|--|---|----|------------------|----------------------------|--|--|
| Conducting meetings, including morning briefs of any sort of meeting-Routine onsite  | Poor illumination level   | Exposed to proof lighting level   | Health  | Eye strains or myopia  | Awareness of the hazard; Lighting maintenance in place; Defect system for out of service conditions  | 4 | C  | II               | Mostly effective           | Site manager or Supervisor   | Occupational Health and Safety Act; General Administrative Regulations;COIDA Act; ISO 45001:2018;Environmental Regulation for Workplace; SANS 10400 A; SANS 10114  |
|  | Poor Indoor Air quality   | Poor Indoor Air Quality due to Legionella in the Ventilation or Air conditioning system           | Health  |  | Awareness and training in respect to the hazard; Make use either of Mechanical ventilation (HVAC System) or natural ventilation(Opening of windows and doors); Combination of Air-conditioning system and natural ventilation; Limitation to meeting time frame (as short as possible) | 3 | C  | II               | Mostly effective           | Site manager or Supervisor   | Occupational Health and Safety Act; General Administrative Regulation;Compensation for Occupational Injuries and Disease Act; ISO 45001:2018; Environmental Regulations for Workplace; Hazardous Biological Agents Regulations; Facilities Regulation;ASHRAE guidelines, |
|  |   | Exposure to indoor air contaminants such VOC's  | Health  | Irritation to chronic obstructive pulmonary diseases   |  | 3 | C  | II               | Mostly effective           | Site manager or Supervisor   | Occupational Health and Safety Act; General Administrative Regulation;Compensation for Occupational Injuries and Disease Act; ISO 45001:2018; Environmental Regulations for Workplace; Facilities Regulation;ASHRAE guidelines,  |
|  | Exposed to ergonomics risk - Working space not Ergonomically designed                                     | Possible Ergonomics risks due to work space setting with bad posture                              | Health  | Musculoskeletal impact-muscle strains  | Awareness and training about the risk; Correct posture to maintain while seating and standing; Ergonomically designed chairs, workspace design to be ergonomically friendly; Prohibition on long standing  | 3 | C  | II               | Mostly effective           | Site manager or Supervisor   | Occupational Health and Safety Act; General Administrative Regulations;COIDA Act; ISO 45001:2018;Environmental Regulation for Workplace; SANS 10400 A; SANS 10114  |
|  |   | Possible prolong standing   | Health  | Cardiovascular health related conditions   |  | 4 | C  | II               | Mostly effective           | Site manager or Supervisor   |  |
|  |   | Exposure to Occupational stress either due to workload, ventilation, lighting, indoor air quality | Health  | Ergonomics related stress  |  | 2 | C  | III              | Mostly effective           | Site manager or Supervisor   |  |
| Cleaning, Sweeping and dusting around the plant has high potential of being exposed to dust, including respirable crystalline silica, Ergonomics risks, Noise, slp and trips | possible exposure to noise  | Health  | Noise induced hearing loss; Tinnitus;           | Training and awareness, Provision of hearing protection devices,   | 4  | C | II | Mostly effective | Site manager or Supervisor | Occupational Health and Safety Act; General Administrative Regulation;Compensation for Occupational Injuries and Disease Act; Facilities Regulations; SANS 1186;Noise Induced hearing loss regulation, SANS 10083:2021                                   |  |
|  | High possibility of exposing to dust  | Health  | Chronic obstructive pulmonary related illnesses | Training and awareness, Provision of respiratory protective devices, Wet sweeping  | 4  | C | II | Mostly effective | Site manager or Supervisor | Occupational Health and Safety Act; General Administrative Regulation;Compensation for Occupational Injuries and Disease Act; Facilities Regulations; SANS 1186;hazardous chemical agents Regulation Environmental Regulations for Workplace Regulations |  |
|  | Ergonomics-Awkward positioning of the body either overreaching when reaching for equipment in the vehicle | Health  | Musculoskeletal issues (Back muscle strain)     | Ergonomic training and awareness ; Usage buddy system when offloading equipment  | 3  | C | II | Mostly effective | Site manager or Supervisor | Occupational Health and Safety Act; General Administrative Regulation;Compensation for Occupational Injuries and Disease Act;Ergonomics Regulations; Facilities Regulations; SANS 1186   |  |
|  | Uneven surface leading to trip and fall   | Safety  | Muscle strains(ankle or wrist)                  | Wearing of anti-static safety boots; Application of STAR principles in all activities; Maintenance contract to fix common facilities such as potholes, Training and awareness about the hazard; Signage to indicate possible hazards | 3  | C | II | Mostly effective | Site manager or Supervisor | Occupational Health and Safety Act; General Administrative Regulation;Compensation for Occupational Injuries and Disease Act;Ergonomics Regulations; Facilities Regulations; SANS 1186   |  |
|  | wet/muddy surface leading slip and fall   | Safety  | Muscle strains(ankle or wrist)                  | Wearing of anti-static safety boots; Application of STAR principles in all activities; Maintenance contract to fix common facilities such as potholes, Training and awareness about the hazard; Signage to indicate possible hazards | 3  | C | II | Mostly effective | Site manager or Supervisor | Occupational Health and Safety Act; General Administrative Regulation;Compensation for Occupational Injuries and Disease Act;Ergonomics Regulations; ISO 45001:2018; Facilities Regs; SANS 1186  |  |
|  | Contact with electrical connections   | Possible exposure to electricity  | Safety  | Electrocution-Fatal injuries   | Training and Awareness; Usage of Competent Technicians; Eskom Permit to be enforced at all times   | 5 | C  | II               | Mostly effective           | Site manager or Supervisor   | Occupational Health and Safety Act; General Administrative Regulation;Compensation for Occupational Injuries and Disease Act; Electrical installation Regulations; Inquest Act; Eskom Plant Safety Regulation; Inquest Act   |
|  |   |   | Safety  | Third degree burns (Electrical or thermal)   |  | 4 | C  | II               | Mostly effective           | Site manager or Supervisor   |  |
|  |   |   | Health  | Electrical shock(Heart problems)   |  | 3 | C  | II               | Mostly effective           | Site manager or Supervisor   |  |
|  | Industrial Cleaning -Routine Maintenance and non-Routine Servicing  | Expsoure to cold water  | Health  | Frost bite   | Conducting dam cleaning during summer, awareness of the hazard, work rest regime during work, Encourage intake of warm liquids, Usage of waterproof and insulated  | 3 | C  | II               | Mostly effective           | Managing director and Site Manger  | Occupational Health and Safety Act; , General Administrative Regulation;COIDA Act;ISO 45001:2018; Environmental Regulations for Workplaces, Facilities Regulation; SANS 1186, Diving Regulations   |
|  |   |   | Health  | Hypothermia  |  | 3 | C  | II               | Mostly effective           |  |  |
| Health   |   |   | Chilblains                                      | 3  |  | C | II | Mostly effective |                            |  |  |
| Working on or near water body (Dam)  |   | Safety  | Drowning (Fatality)                             |  | 5  | C | II | Mostly effective | Site manager or Supervisor |  |  |

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|--|--|--|--------|--|---|---|---|----|------------------|----------------------------|---|
|  | Working next to water body   | Exposed to cold water  | Health | Cold related stress                      | Training on the risks, designated supervisor to perform rescue tasks, Use of Life Buoy, Boat hook, life line, life jackets audible alarm, training on swimming, Conducting dam cleaning during summer, awareness of the hazard, work rest regime during work, Encourage intake of warm liquids, Usage of waterproof and insulated | 3 | C | II | Mostly effective | Site manager or Supervisor | Occupational Health and Safety Act; General Administrative Regulation; COIDA Act; ISO 45001:2018; Environmental Regulations for Workplaces, Facilities Regulation; SANS 1186, Diving Regulations, Hazardous Chemical Regulation                 |
|  |  | Possible skin contact with hydrocarbons in the water   | Health | Contact skin dermatitis                  |   | 3 | C | II | Mostly effective | Site manager or Supervisor |   |
|  | Probability of falling into water                                      | possible risk of falling into water  | Safety | Fatal Injuries                           | Training of the risk of working at height; Fall Protection plan and fall protection devices; usage of A-frame ladder and inspection checklist   | 5 | C | II | Mostly effective | Site manager or Supervisor | Occupational Health and Safety Act; General Administrative Regulation; Compensation for Occupational Injuries and Diseases Act; ISO 45001:2018; Environmental Regulations for Workplaces, Facilities Regulation; SANS 1186, Diving Regulations, |
|  |  |  | Safety | Injuries-broken limbs                    |   | 3 | C | II | Mostly effective | Site manager or Supervisor |   |
|  | Ergonomics - awkward bending or overreaching while sweeping or dusting | Possible ergonomics risks factor due to unnatural position being taken and extending standing time | Health | Musculoskeletal impact-muscle strains    | Awareness and training about Ergonomic risk; Avoiding standing long time; work rest regime to be applied  | 3 | C | II | Mostly effective | Site manager or Supervisor | Occupational Health and Safety Act; General Administrative Regulations; Compensation for Occupational Injuries and Diseases Act; Ergonomic Regulations; ISO 45001:2018;   |
|  |  |  | Health | Cardiovascular health related conditions |   | 3 | C | II | Mostly effective | Site manager or Supervisor |   |
|  | Sweeping with brooms   | Possible hose whipping   | Safety | whiplash injuries                        | Permit to work system; Competent and experience personal for the project; usage of whipchecks together with couplings, usage of hearing prection devices; Permit to work system   | 3 | C | II | Mostly effective | Site manager or Supervisor | Occupational Health and Safety Act; General Administrative Regulations; Compensation for Occupational Injuries and Diseases Act; Noise Induced Hearing Loss Regulations; Pressure Equipment Regulation  |
|  |  | Possible cuts by high pressurised air  | Safety | Deep cuts injuries                       |   | 3 | C | II | Mostly effective | Site manager or Supervisor |   |



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