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| UTS SAFE WORK METHOD statement (SWMS) |

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| 1. **FACULTY/SUBJECT** | |
| Faculty/Subject title | 41013 Industrial Robotics |
| Subject supervisor/coordinator | Gavin Paul |
| SWMS prepared by | Britney Malone |

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| 1. **WORK ACTIVITY DESCRIPTION** | | | | | |
| Describe the work activity E.g. Operating, Handling, Using.. Include names of hazardous equipment, substances or materials used,  and any quantities and concentrations of substance(s) or reaction products. | Work to be conducted is within the Mechatronics Lab room CB11.10.403. There is intended to be the operation and handling of robotic equipment for learning purposes. One card access has been granted; there will be 24-hour lab access to conduct low-risk unsupervised activities. | | | | |
| 1. HAZARDS: Choose those hazard types that will need to have control measures in Section 4 | | | | | |
| **Work Environment**   * Working in Remote Locations * Working Outdoors/fieldwork * Clinical/Industrial setting * Poor ventilation/Air quality * Temperature extremes * Working at Height * Slip/Trip/Fall hazards | **Plant**   * Noise * Vibration * Working with compressed air * Lifts Hoists or Cranes * Moving parts (Crushing,friction, cut, stab, shear hazards) * Pressure Vessels or Boilers | | **Chemical**   * Hazardous Chemicals use * Skin/eye irritant * Sensitiser * Mutagen * Carcinogen * Toxic to reproduction * Aquatic toxicity * Toxic * Corrosive * Dangerous when wet | | **Ergonomic/Manual Handling**   * Repetitive or awkward movements * Lifting heavy objects * Over reaching * Working above shoulder or below knee height * Poor workstation set up |
| **Electrical**   * Plug in equipment * High voltage * Exposed wiring * Exposed conductors | **Radiation**   * Ionising Radiation * Non-ionising radiation (Lasers, Microwaves, Ultraviolet light) | | **Biological**   * Sharps/Needles * Cytotoxins * Pathogens/infectious materials * Infectious materials * Communicable diseases * Animal/insects * Work with fungi/bact/viruses | | **Psychosocial**   * Aggressive or violent clients/students * Working in isolation * Working with timeframes * Staffing issues |
| 1. **CONTROLS MEASURES: Choose those that apply for hazards identified** | | | | | |
| **Eliminate/Isolate/Substitute / Engineering Controls**   * Remove hazard * Restrict access * Redesign equipment * Guarding / Barriers / Fume Cupboard / exhaust * Use safer materials/substances * Ventilation * Regular maintenance of equipment * Redesign of workspace / workflow | | **Admin specific: Licenses/permits Work Methods**   * Training Information or Instruction * Test and tag electrical equipment * Restricted access * Regular breaks * Task rotation * Work in pairs | | **Emergency Response Systems**   * First aid kit * Chemical spill kit * Eye wash station * Emergency Stop button * Remote Communication Mechanism | |
| **Other controls not listed** | | | | | |
| 1. **PPE REQUIRED (Tick those that apply)** | | | | | |
| http://www.orr.uts.edu.au/images/pictograms/protection/hand.pnghttp://www.orr.uts.edu.au/images/pictograms/protection/face.pnghttp://www.orr.uts.edu.au/images/pictograms/protection/eye.pnghttp://www.orr.uts.edu.au/images/pictograms/protection/hearing.pnghttp://www.orr.uts.edu.au/images/pictograms/protection/foot.pnghttp://www.orr.uts.edu.au/images/pictograms/protection/ppe.png | | | | | |
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| http://www.orr.uts.edu.au/images/pictograms/protection/respiratory.pnghttp://www.orr.uts.edu.au/images/pictograms/protection/head.pnghttp://www.orr.uts.edu.au/images/pictograms/protection/hair.png | | | | | |
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| 1. **EMERGENCY EQUIPMENT** | | | | | |
| http://www.orr.uts.edu.au/images/pictograms/equipment/eyewash.pnghttp://www.orr.uts.edu.au/images/pictograms/equipment/spill.pnghttp://www.orr.uts.edu.au/images/pictograms/equipment/shower.png | | | | | |
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| 1. **work activity steps** |
| **before you start:**   * Complete a risk assessment * Complete SWMS * Complete the *FEIT CB11 Mechatronics Lab Induction* * Be rested and prepared to be aware of all potential situations in the laboratory. * Have a plan * Seek advice from supervisors if required   **steps in work activity:**   1. Identify maintenance tasks and gather necessary tools and PPE. 2. Evaluate the work areas for hazards and assess inherent risks. 3. Develop a clear plan for the use of equipment. 4. Follow the manufacturer's guidelines for equipment use. 5. Use equipment respectfully and properly. 6. If required, seek advice from supervisors. 7. Periodically review and update the SWMS as needed.   **emergency procedures:**   * Press emergency button * Notify security or dial 6 using the UTS internal phone   **training required:**   * FEIT CB11 Mechatronics Lab Induction |

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| 1. **sign off** | | |
| **prepared by:**  **NAME: Britney Malone** | **Lab Supervisor**  **Name: Michael Lee** | **Date: 15/09/2023**  **Review Date:** |