## **UGRacing Formula Student Garage Workshop Induction**

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#### **Workshop Induction**

#### 1. Routine Access

- a. Use of yellow marked walk-ways
- b. Potential hazards in workshop
- c. Sign in book
- d. 0900 1700 core hours, out of hours access 1700 0000
- e. Access to tunnel
- f. Ensure workshop door is locked and outside door is locked
- g. Access to workshop technicians

## 2. Emergency Procedures

- a. Fire doors leading outside
- b. Fire extinguisher location
- c. Sink for burns, hygiene, etc.

## 3. Protective equipment available

- a. Gloves
- b. Goggles
- c. Overalls
- d. Ear protection
- e. Welding masks

### 4. Tool use

- a. Tidyness, put tools away
- b. General overview of "green" tools
  - i. Cutting away from self
  - ii. Correct hammer use
  - iii. Care with files
  - iv. Soldering iron use
    - 1. Ventilation
    - 2. Burns
    - 3. Safety glasses

- v. Use of pillar drill
  - 1. Use of safety glasses
  - 2. Guard
  - 3. Correct fitting of drill bits
  - 4. Safety clothing (no jewellery, etc.)
- vi. Use of handheld power drill and dremel
  - 1. Demonstration of correct procedure
  - 2. Safety glasses
  - 3. Fitting bits correctly
- vii. Use of spray paint
  - 1. Ventilation / Respiratory protection
- 5. Location of and hazards relating to harmful materials
  - a. Solvents
  - b. Petrol
  - c. Brake fluid

# List of training points for each tool

Saw – eye protection, ensure material is secure, proper technique (hand position)

Knife – hand protection, cut away from self

Hammer – demonstrate correct technique

Handheld power drill – eye protection, hand protection, cable routing, correct technique

Files – eye protection, correct technique

Soldering iron – good ventilation, demonstrate hot tip, risk of burns

Vice – demonstrate correct technique

Snips – demonstrate correct technique

Dremel – hand protection, demonstrate correct technique

Air sander – hand protection, demonstate correct technique

Spray paint - good ventilation, explain correct technique

Pillar drill – eye protection, explain use of guards, location of emergency stop switch, correct technique

Angle grinder – eye protection, hand protection explain correct technique, emergency stop switch

Bench grinder – eye protection, hand protection, explain correct technique, emergency stop switch

MIG / TIG welders – eye protection, hand protection, face protection, give overview of tool, explain emergency stop

Belt sander - eye protection, hand protection, give overview of tool, explain emergency stop

Handheld power saw - eye protection, hand protection, cable routing, give overview of tool, explain emergency stop

Bench chop saw - eye protection, hand protection, give overview of tool, explain emergency stop

Crane - give overview of tool

Mechanical workshop tools – give overview of tools

Lift accessing tunnels – give overview of lift, correct procedures