

# ~ FABRICATION ~



CASTING

## OPERATING INSTRUCTIONS

INTRODUCING



CASTING

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# HOT WAX H&S



Hot Wax and Hot Working Room

Access Level 1 – Student Use **AFTER** Induction

Access Level 2 – Student Use **WITH** Supervision

Access Level 3 – Student Use **WITH** Counter-Signed **PASSPORT** of Supervisor or Instructor

Melting wax down into a liquid for pouring, fabrication and painting

### PPE Basic

- Suitable work coat (provided)
- Eye protection – generally marked to BS/EN166 (provided)
- Hair tied back

### What to do before use

- **INFORM** a member of staff **BEFORE** starting work
- **KNOW** and **FAMILIARISE** where the emergency gas shut off is
- **KNOW** and **FAMILIARISE** where the emergency Fire blanket is
- **KNOW** and **FAMILIARISE** where the Fire alarms are

### How to Use Wax and Gas Burners

- **START** to set up your work and **WORK ON** metal trays to **CATCH SPILT** wax and to **AVOID PUTTING** hot pans onto the work surface.
- **TURN ON** wax extraction
- **TURN ON** gas burner
- The **GAS BURNER**, once lit, **MUST BE SUPERVISED** at all times by you
- **START** to melt your wax on a **LOW HEAT**

- **IF HEATING** a pot with solidified wax, it **MUST** be melted from the **SIDE ACROSS FIRST** to **STOP** a build-up of **PRESSURE** and **EXPLOSION** of molten wax
- **MAKE SURE HANDLES** of pans are **NOT FACING INTO** the space
- **AVOID** over-heating the wax. It is a **POOR CONDUCTOR** of heat and **DOES NOT REQUIRE MUCH HEAT** to melt it and then overheat (**SMOKY FUMES** are a sign of it being **TOO HOT**)
- **AVOID SPILLING** wax on the gas burners
- **AVOID GETTING WATER** into the molten wax - it can spit
- If a **FIRE** breaks out **TURN OFF THE GAS** and **USE THE FIRE ALARM POINTS** to alert others in the area
- **TIDY UP** any spills and remove scrap or waste materials in a suitable waste bin or collector
- **RETURN** the space to **TIDY CONDITION** once finished

### Fire Safety

- **Familiarise yourself with all fire exits**
- **Familiarise yourself with all fire alarm points**
- **In the event of a laser cutting fire, lift the lid and hit the red emergency stop button**
- **Raise the alarm**
- **Do not tackle a fire that is out of hand**
- **Do not use fire extinguishers unless trained or absolutely necessary**
- **Evacuate the building using the closest fire exits**
- **Do not alter your route in order to collect belongings**
- **Encourage others to leave and guide visitors**
- **Assist those with sensory/mobility impairment**
- **Close doors behind you**
- **Move a safe distance away from any building**
- **Stay out until told it is safe to re-enter**

I verify that I have read and understood the information detailed within this document

Date

Name

Signature