

FOUNDRY FURNACE

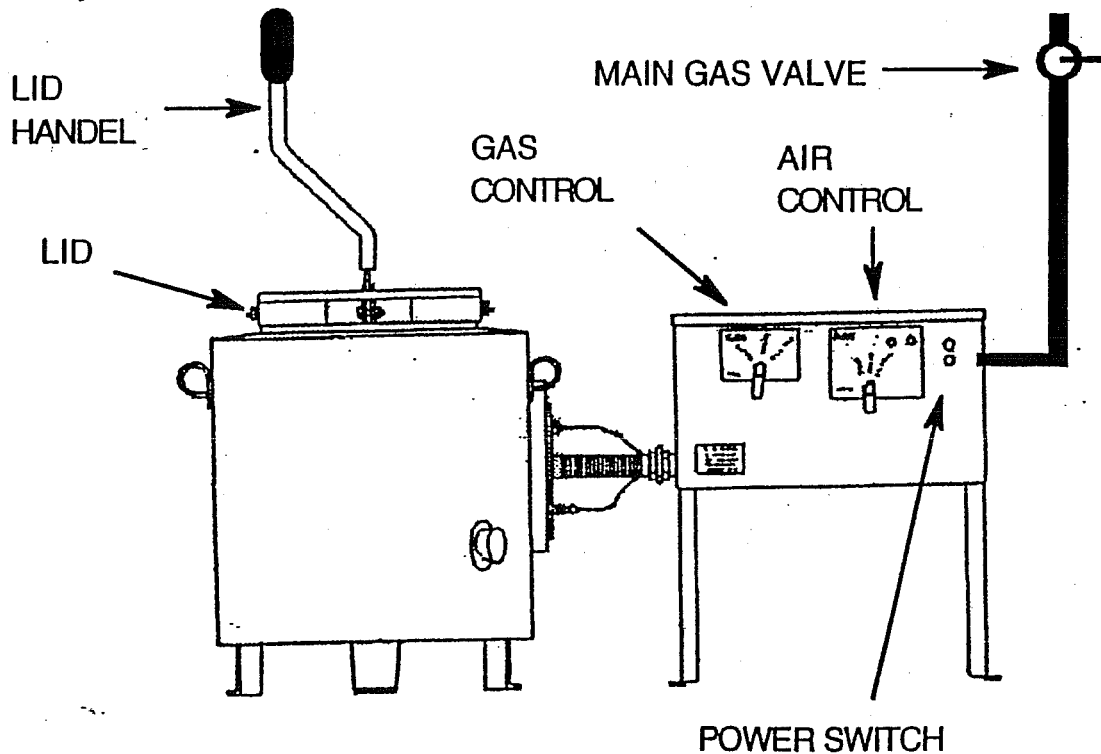
To certify on the foundry furnace you will need to know:

1. The safety rules.
2. The parts of the foundry furnace.
3. Be able to explain and demonstrate how to light and shut off foundry furnace.

Foundry furnace safety rules

1. **Do not** get the foundry sand too wet.
2. Proper ventilation must be available.
3. Dress properly, wear safety glasses and a faceshield, leggings, apron and gloves.
4. Use tongs to pick up hot and cold metals.
5. Do not look over mold as you pour molten metal or as it cools.
6. Mark all hot metal.
7. Follow instructions for lighting foundry furnace. Make sure the lid is off before lighting the foundry furnace.

Foundry furnace parts



How to light the foundry furnace

1. Check with instructor before lighting the foundry furnace.
2. Open the lid to the foundry furnace.
3. Open main gas valve.
4. Set the gas control handle to the start position on the dial. Set the air control dial to number 3.
5. Depress the start button of the power switch.
6. Depress the and hold in the ignition button on the air control panel. After about 15 seconds the ignition light should go out. If the burner does not come on in 3 or 4 seconds release the ignition button push the stop button and get your instructor.
7. After lighting the furnace place the lid back over the foundry furnace. After a 10 minute warm up period move the gas control knob towards open. then turn the air control knob slowly and increase the air supply until the tail of the flame is barely visible.
8. To shut down the furnace, turn the gas control handle to the closed position and push the stop button at the power switch. Then shut off your main gas valve.