

# HAAS MILL OPERATORS COURSE OUTLINE

## ◆ POWER - UP

- A. Power On button
- B. Machine Home procedure

## ◆ Keyboard Layout

- A. Modes
  - 1. Edit
  - 2. Memory
  - 3. MDI
  - 4. Jog
  - 5. Z retraction
  - 6. List program
- B. Displays
  - 1. Program
  - 2. Position
  - 3. Offsets
  - 4. Current Commands
  - 5. Alarms
  - 6. Messages
  - 7. Parameters
  - 8. Diagnostics
  - 9. Settings
  - 10. Graphics
  - 11. Help
  - 12. Calculator

## ◆ Tooling

- A. Safety
- B. Load / Unload Tools
- C. Tool Offset page
  - 1. Length
  - 2. Size (Diameter or Radius)
  - 3. Wear
  - 4. Setting Tool Length Offsets
    - a. Manually / Offset gage
    - a. Probe

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◆ **Work - Offsets**

- A. G54 through G59 & G110 / G129
- B. G53
- C. Setting Work - Offsets
  - 1. Probe
  - 2. Manually / Edge Finder

◆ **Mid - Program Start**

- A. Procedure
- B. Cautions / Safety

◆ **Overrides**

- A. Percentage
  - 1. Speed
  - 2. Feed Rate

◆ **Alarms**

- A. Reset
- B. Interrupted Tool Change

◆ **POWER DOWN**

- A. Proper Procedure for machine shut down

