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Basic Programming Syllabus

Basic Operation of Machine

1. Perform a machine walk around. Review operator and pallet change area, emergency stops, door interlocks, oil/air supply, coolant tank, and electrical cabinet. Review some basic daily maintenance functions
2. Proper power up and down of machine
3. Explain and demonstrate machine operator panel, pallet changer and tool magazine panels
4. Explain and demonstrate all Fanuc control screens and functions i.e., position screens, program screens, offset screens
5. Perform Manual Data Input functions
6. Setup the machine in Auto-Cycle mode
7. Troubleshoot some basic machine function problems i.e., tool changer and pallet changer hang-ups

Programming

1. Review in detail all M codes, G codes and canned cycles
2. Review the machine tooling manual
3. Demonstrate standard options
4. Explain and demonstrate work offsets and tool offsets
5. Explain program format, write basic programs and debug programs at the machine
6. Perform program editing, copying and merging on the control

Advanced Operations

With time scheduled in advance with the instructor, a demonstration of purchased control functions or advanced options is available.