Day 1

1. Introduction
   1.1. General Safety Procedures
   1.2. Recycle - ISO 14001

2. Inputs & Outputs
   2.1. Monitor / Command Window
   2.2. IO Monitor
   2.3. ON/OFF & SW
   2.4. Remote Inputs / Outputs
   2.5. Memory Bits
   2.6. Byte Function / Statement IN / OUT

3. Program Logic Basics
   3.1. Function / Fend (Subroutines)
   3.2. Keywords - Statement / Function
   3.3. Variable Usage
   3.4. Print command
   3.5. Program Logic Structure
      3.5.1. Do / Loop
      3.5.2. If / EndIf
      3.5.3. For / Next
   3.6. Run & Start / Abort (Stop)

4. Robot Controller Basics
   4.1. Motor On / Off
   4.2. Reset, Abort
   4.3. Brake ON / OFF (Pro Six Only)
   4.4. Jump, Go, Move (Jump3 for Pro Six)
   4.5. Power (SAFETY DISCUSSION WHEN HIGH POWER IS ON)
   4.6. Velocity Commands
      4.6.1. Speed (point to point)
      4.6.2. Accel
      4.6.3. Speeds (continuous path)
      4.6.4. Accels
   4.7. Jog & Teach
      4.7.1. Jogging Basics (World, Tool, Joint)
      4.7.2. Teaching Points (point file discussion)
      4.7.3. Pendant Operation (if applicable)
      4.7.4. Direct Teaching (with SFREE or Motor Off on SCARA Robots)
   4.8. EPSON Controller Safeguard Operation
      4.8.1. Auto / Manual Recovery
      4.8.2. Remote Recover

5. Lab 1
   5.1. Objective: Pick and place simulation lab using inputs, outputs.
   5.2. Objective: Pick and place simulation lab using memory IO, IN, OUT
Technician Programming
Training Syllabus

6. Debugging
   6.1. Setting and clearing breakpoints
   6.2. Step Into
   6.3. Step Over
   6.4. Displaying Variables
   6.5. Task Manager (Halt / Resume)

7. Motion Optimization
   7.1. Timers
   7.2. Arch
   7.3. Limz (SCARA Only)
   7.4. Weight / Inertia

8. Lab Optimization Techniques
   8.1. Objective: Using optimization to reduce cycle time.

9. Tool Offsets
   9.1. TLSET
   9.2. TOOL
   9.3. Create Tool Offset

10. Open Lab
    10.1. Question & Answer
    10.2. Focused User Topics