



## Automated Cells & Equipment, Inc.

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### 3 Day Handling Tool Programming and Operations Training Syllabus

#### Day 1 & 2, 8:00a.m. – 4:30p.m.

1. **SAFETY**
  - A. E-stop
  - B. Work Cell / Pinch points
  - C. Jog Speed / Run Speed
2. **ROBOT OVERVIEW**
  - A. Controller
  - B. Teach Pendant
3. **ROBOT OPERATIONS**
  - A. Safe Start up/ Shut Down
  - B. Jogging the robot
  - C. Selecting and running programs
  - D. Recording positions
4. **STATUS DISPLAY**
  - A. LED on TP
  - B. User Screen/User Menus
  - C. I/O
  - D. Current Position
  - E. System Variables
5. **PROGRAM STRUCTURE**
  - A. Motion Instructions
  - B. Motion Options
  - C. Register Instructions
  - D. I/O Instructions
  - E. Branch Instructions
  - F. Wait Instructions
  - G. Skip Condition Instructions
  - H. Offset Condition Instructions
  - I. Frame Instructions
  - J. Program Control Instructions
  - K. Other Instructions

#### 6. **PROGRAM AND FILE MANIPULATION**

- A. Storage Device
- B. Manipulating Programs
- C. Manipulating Files

#### 7. **MASTERING**

- A. Zero Degree
- B. Quick
- C. Single Axis
- D. Setting Mastering Data

#### Day 3, 8:00a.m. – 4:30p.m.

#### 1. **ELECTRICAL MAINTENANCE / TROUBLESHOOTING**

- A. Controller Overview
- B. Diagnostic Screens
- C. Lights and LED's
- D. Troubleshooting

#### 2. **MECHANICAL UNIT MAINTENANCE / TROUBLESHOOTING**

- A. Mechanical Unit Overview
- B. Preventive Maintenance Schedule
- C. Greasing Points
- D. Troubleshooting

CERTIFIED SERVICING INTEGRATOR

STRATEGIC MARKET SPECIALIST

CERTIFIED VISION SPECIALIST

