MAC 262 - Intro to Multi-Axis Lathe Working Syllabus

# WEEK 1

## DAY 1

1. Cover pages 1-11, 13-23, 28-31, 34 in the Training Manual
2. Demo power up & power down
3. Demo tool touch off
4. Demo Work coordinate setting

## DAY 2

1. Demo load unload program via USB
2. Use any proofed program supplied
3. COMMON ALARMS
4. Demonstration

## DAY 3

1. Machine Specs Worksheet
2. Verify specs

## DAY 4

1. Hands on comp of week 1 material
2. Videos of multi axis lathe & mill turn

# WEEK 2

## DAY 1

1. MAC 262 QUIZ 1
2. E\_C Axis PowerPoint
3. E\_Y Axis PowerPoint

## DAY 2

1. E\_Dual Machining PowerPoint
2. Read and Discuss pages 37-57 (M codes) in Training Manual

## DAY 3

1. Demo setting B axis work
2. Demo full program
3. Demo adjustments

## DAY 4

1. Hands on comp of operate full program
2. Review concepts of live tools and C axis

# WEEK 3

## DAY 1

1. MAC 262 QUIZ 2
2. Program path for .625 Hex with G12.1
3. Program 4 face holes with no Y axis

## DAY 2

1. Program path for simple cam path G07.1
2. Program path for .625 with Y axis

## DAY 3

1. Program path for 4 face holes with Y
2. Review part hand off and part catcher
3. Review material for mid term

## DAY 4

1. Mid term
2. Lights on machining concepts
3. You tube videos of other machines

# WEEK 4

## DAY 1

1. Review lights out, bar jobs & B axis work
2. Collet pick off math
3. Wait codes and double programs

## DAY 2

1. Chuck jaw cutting
2. emergency collets
3. Program part trade off
4. Program part catcher

## DAY 3

1. Common issues with lights out operation
2. Air blast and chip flushing
3. Tool management

## DAY 4

1. Robots and gantries
2. Open M codes
3. Video examples of robot load/unload

# WEEK 5

## DAY 1

1. MAC 262 QUIZ3
2. Review week 1
3. Review week 2

## DAY 2

1. Review week 3
2. Hands on comp of machine specs
3. Hands on comp of tool setting

## DAY 3

1. Review week 4
2. Hands on work setting
3. Hands on part catch locate

## DAY 4

1. Final