





4. Analyze, construct, and inspect/diagrams to repair physical and electrical components.	auto53a,53b	N/A			
5. Produce toolpaths with constructed and imported geometry using Mastercam.	mcnc76c, 76h,76m			X	



4. Analyze, construct, and inspect/diagrams to repair physical and electrical components.	auto53a,53b	N/A			
5. Produce toolpaths with constructed and imported geometry using Mastercam.	mcnc76c, 76h,76m			X	

# Program Level Outcome Assessment Plan

Department: Manufacturing & CNC Technology

Division: AT

Program/Certificate/Degree: Manufacturing & CNC Technology/Product Model Making/COAA

Number of authors/participants: 2 Contact Person: Mike Appio

**Instructions:** For each program level outcome in this program indicate in which year you will collect course assessment data. To facilitate this, if using embedded assessments, list courses to assess for assessment of this PLO. During a five-year period, it is assumed that all outcomes will have been assessed. Comprehensive Review is scheduled for Spring 2014.

**Name as DEPT\_PLO\_ProgramName.xls                      Submit as e-mail attachment to outcomes@deanza.edu**

Program Level Outcome Assessment Plan					
2010-11					
Program Level Outcomes	Courses to be assessed (eg PE21, PE22)	2010-11	2011-12	2012-13	2013-14
1. Construct and inspect machined projects using conventional and CNC equipment using word address programs.	mcnc71, 75a,75b		X		
2. Design and construct three dimensional objects	arts10a,10b	N/A			
3. Create part geometry using Solidworks/Pro Engineer cad software.	cdi60,70	N/A			

4. Differentiate and analyze the materials and processes used in manufacturing.	mcnc64	X			
5. Produce toolpaths with constructed and imported geometry using Mastercam.	mcnc76c, 76h,76m			X	





4. Differentiate and analyze the materials and processes used in manufacturing.	mcnc64	X			
5. Produce toolpaths with constructed and imported geometry using Mastercam.	mcnc76c, 76h,76m			X	

# Program Level Outcome Assessment Plan

Department: Manufacturing & CNC Technology

Division: AT

Program/Certificate/Degree: Manufacturing & CNC Technology/Manufacturing Systems tech/COA

Number of authors/participants: 2 Contact Person: Mike Appio

**Instructions:** For each program level outcome in this program indicate in which year you will collect course assessment data. To facilitate this, if using embedded assessments, list courses to assess for assessment of this PLO. During a five-year period, it is assumed that all outcomes will have been assessed. Comprehensive Review is scheduled for Spring 2014.

**Name as DEPT\_PLO\_ProgramName.xls                      Submit as e-mail attachment to outcomes@deanza.edu**

Program Level Outcome Assessment Plan					
2010-11					
Program Level Outcomes	Courses to be assessed (eg PE21, PE22)	2010-11	2011-12	2012-13	2013-14
1. Demonstrate safe operation of basic and specialized equipment.	mcnc71, 77,75a		X		
2. Demonstrate entry level programming skills for computer numerical controlled equipment	mcnc71,75a		X		
3. Analyze, construct, and inspect parts/diagrams to repair physical and electrical components	auto53a,53b, mcnc64			X	



4. Produce toolpaths with constructed and imported geometry using Mastercam.	mcnc76c, 76h,76m			X	
5. Advanced machining skills by independently constructing projects.	mcnc56,56x		X		



4. Produce toolpaths with constructed and imported geometry using Mastercam.	mcnc76c, 76h,76m			X	
5. Advanced machining skills by independently constructing projects.	mcnc56,56x		X		

# Program Level Outcome Assessment Plan

Department: Manufacturing & CNC Technology

Division: AT

Program/Certificate/Degree: Manufacturing & CNC Technology/Machine Operator/Skills Certificate

Number of authors/participants: 2 Contact Person: Mike Appio

**Instructions:** For each program level outcome in this program indicate in which year you will collect course assessment data. To facilitate this, if using embedded assessments, list courses to assess for assessment of this PLO. During a five-year period, it is assumed that all outcomes will have been assessed. Comprehensive Review is scheduled for Spring 2014.

**Name as DEPT\_PLO\_ProgramName.xls                      Submit as e-mail attachment to outcomes@deanza.edu**

Program Level Outcome Assessment Plan					
2010-11					
Program Level Outcomes	Courses to be assessed (eg PE21, PE22)	2010-11	2011-12	2012-13	2013-14
1. Set up and operate conventional and CNC machines safely.	mcnc71,75a, 75b		X		
2. Construct and inspect machined projects using conventional and CNC equipment.	mcnc71,75a, 75b		X		
3. Construct word address programs to machine projects.	mcnc75a, 75b		X		