Department: Manufacturing & CNC Technology	
Division: _AT	
Program/Certificate/Degree: Manufacturing & CNC Technology/Cad-Cam Mastercam/Skills Certificate	

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

Name as DEPT_PLO_ProgramName.xls	Submit as e-m	ail attachme	ent to outcom	nes@deanza.e	edu
Program Level Outcome Assessment Plan					
20	010-11				
Program Level Outcomes	Courses to be assessed (eg PE21, PE22)	2010-11	2011-12	2012-13	2013-14
1. Design and construct 2D, 3D, Lathe, Horizontal and multi axis	mcnc76c,			X	
part geometry.	76h,76m				
2. Select tools and produce toolpaths with constucted and imported geometry.	mcnc76c, 76h,76m			х	
3. Verify toolpaths and create word address programs for CNC	mcnc76c,			Х	
machines.	76h,76m				

Department: Manufacturing & CNC Technology
Division: AT
Program/Certificate/Degree:Manufacturing & CNC Technology/CNC Research and Development Machinist/_COAA
Number of authors/participants: 2 Contact Person: Mike Appio

Name as DEPT_PLO_ProgramName.xls	Submit as e-m	nail attachme	nt to outcom	es@deanza.e	edu
Program Level Outcome Assessment Plan					
20	10-11				
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	mcnc71,77		X		
CNC equipment using word address programs.	75a,75b,75c				
2. Annly reconstrict disconsists and telegrapes standards to	on o72				
Apply geometric dimensioning and tolerance standards to inspect drawings and inspect parts using a coordinate measuring machine.	mcnc72			Х	
3. Differentiate and analyze the materials and processes used in manufacturing.	mcnc64	X			

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

Department: Manufacturing & CNC Technology
Division: AT
Program/Certificate/Degree:Manufacturing & CNC Technology/CNC Research and Development Machinist/A.S. Degree
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.

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Name as DEPT_PLO_ProgramName.xls	Submit as e-m	iail attachme	ent to outcom	es@deanza.e	edu
Program Level Outcome Assessment Plan					
20	10-11				
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	mcnc71,77		Х		
CNC equipment using word address programs.	75a,75b,75c				
Apply geometric dimensioning and tolerance standards to inspect drawings and inspect parts using a coordinate measuring machine.	mcnc72			Х	
3. Differentiate and analyze the materials and processes used in manufacturing.	mcnc64	Х			

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

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

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.

Number of authors/participants: 2

Name as DEPT_PLO_ProgramName.xls	DEPT_PLO_ProgramName.xls Submit as e-mail attachment to outcomes@deanza.edu				
Program Level Outcome Assessment Plan					
20)10-11				
	Courses to be				
Program Level Outcomes	assessed (eg PE21, PE22)	2010-11	2011-12	2012-13	2013-14
1. Construct and inspect machined projects using conventional and	mcnc71,		X		
CNC equipment using word address programs.	75a,75b				
2. Design and construct three dimensional objects	arts10a,10b	N/A			
3. Create part geometry using Solidworks/Pro Engineer cad	cdi60,70	N/A			
software.					

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

Department: <u>Manufacturing & CNC Technology</u>	
Division: _AT	
Program/Certificate/Degree: Manufacturing & CN	IC Technology/Product Model Making/A.S. Degree
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.

Submit as e-mail attachment to outcomes@deanza.edu					
	sment Plan				
PE21, PE22)	2010-11	2011-12	2012-13	2013-14	
mcnc71,		Х			
75a,75b					
arts10a,10b	N/A				
cdi60,70	N/A				
(Come Assess 010-11 Courses to be assessed (eg PE21, PE22) mcnc71, 75a,75b arts10a,10b	Come Assessment Plan 010-11 Courses to be assessed (eg PE21, PE22) mcnc71, 75a,75b arts10a,10b N/A	Come Assessment Plan 010-11 Courses to be assessed (eg PE21, PE22) mcnc71, 75a,75b arts10a,10b N/A	Courses to be assessed (eg PE21, PE22) 2010-11 2011-12 2012-13 mcnc71, 75a,75b N/A	

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

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

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Program Level Out	come Assess	sment Plan				
20)10-11					
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			
Demonstrate entry level programming skills for computer numerical controlled equipment	mcnc71,75a		Х			
3. Analyze, construct, and inspect parts/diagrams to repair physical and electrical components	auto53a,53b, mcnc64			Х		

Department: <u>Manufacturing</u>	A CNC Technology	
Division: AT		
Program/Certificate/Degree:	Manufacturing & CNC Technology/CNC Machinist/COAA	

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

Name as DEPT_PLO_ProgramName.xls	Submit as e-mail attachment to outcomes@deanza.edu					
Program Level Out	come Assess	ment Plan				
20	010-11					
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 CNC equipment	mcnc71,		X			
with word address programs.	75a,75b,75c					
Apply geometric dimensioning and tolerance standards to inspect drawings and inspect parts using a coordinate measuring machine.	mcnc72			X		
3. Differentiate and analyze the materials and processes used in manufacturing.	mcnc64	X				

4. Produce toolpaths with constructed and imported geometry	mcnc76c,		Х	
using Mastercam.	76h,76m			
	56.56	.,		
5. Advanced machining skills by independently constructing	mcnc56,56x	X		
projects.				

Department:iManufacturing & CNC Technology	
Division: AT	
Program/Certificate/Degree: Manufacturing & CNC Technology/CNC Machinist/AS degree	

Contact Person: Mike Appio

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Number of authors/participants: 2

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Program Level Out	come Assess	sment Plan				
20)10-11					
	Courses to be					
	assessed (eg					
Program Level Outcomes	PE21, PE22)	2010-11	2011-12	2012-13	2013-14	
1. Construct and inspect machined projects using CNC equipment	mcnc71,		X			
with word address programs.	75a,75b,75c					
2. Apply geometric dimensioning and tolerance standards to	mcnc72			Х		
inspect drawings and inspect parts using a coordinate measuring						
machine.						
2. Differentiate and analyze the materials and processes used in	mcnc64	Х				
3. Differentiate and analyze the materials and processes used in	meneb4	^				
manufacturing.						

4. Produce toolpaths with constructed and imported geometry	mcnc76c,		Х	
using Mastercam.	76h,76m			
	56.56	.,		
5. Advanced machining skills by independently constructing	mcnc56,56x	X		
projects.				

Department: Manufacturing & CNC Technology	
Division: _AT	
Program/Certificate/Degree: Manufacturing & CNC Technolog	y/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.

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Name as DEPT_PLO_ProgramName.xis 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		Х			
3. Construct word address programs to machine projects.	mcnc75a, 75b		Х			