DE ANZA COLLEGE
Student Learning Outcomes (SLOs) Assessment Report
Mapping Program Level Outcomes to Institutional Core Competencies

Program/Certificate/Degree Name: CAD/CAM Mastercam Skills Certificate

Date: 4/15/2011

Division (if applicable): Applied Technologies

Program Contact Person: Mike Appio

Phone: 8283

See instructions for ICCs reference numbers "Expanded ICCs" tab below. Every program will need an individual sheet. Attach additional pages as necessary.

Name as DEPT_PLO_ProgramName.xls **Submit as e-mail attachment to outcomes@deanza.edu**

ICC Number #'s	Program Level Outcomes	Means of Assessment and Criteria for Success	Summary of Data Collected	Use of Results	Timeline for Program Modification
5	1. Design and construct 2D, 3D, Lathe, Horizontal and multi axis part geometry.	Completion of capstone projects in MCNC-76H and 76M			
2,5	2. Select tools and produce toolpaths with constructed and imported geometry.	Completion of capstone projects in MCNC-76H and 76M			
5	3. Verify toolpaths and create word address programs for CNC machines.	Completion of capstone projects in MCNC-76H and 76M			

ICC 1: Communication and expression
ICC 2: Information literacy
ICC 3: Physical/mental wellness and personal responsibility
ICC 4: Global, cultural, social and environmental awareness
ICC 4 Critical thinking

DE ANZA COLLEGE
Student Learning Outcomes (SLOs) Assessment Report
Mapping Program Level Outcomes to Institutional Core Competencies

Program/Certificate/Degree Name: Product Model Making A.S.
Date: 4/15/2011
Division (if applicable): Applied Technologies
Program Contact Person: Mike Appio
Phone: 8283

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Name as DEPT_PLO_ProgramName.xls **Submit as e-mail attachment to outcomes@deanza.edu**

ICC Number #'s	Program Level Outcomes	Means of Assessment and Criteria for Success	Summary of Data Collected	Use of Results	Timeline for Program Modification
2,5	1. Construct and inspect machined projects using CNC equipment with word address programs.	Completion of capstone project in MCNC-75B			
2	2. Design and construct three dimensional objects	N/A			
5	3. Create part geometry using Solidworks/Pro Engineer cad software.	N/A			
4	4. Differentiate and analyze the materials and processes used in manufacturing.	Completion of capstone project in MCNC-64			
5	5. Produce toolpaths with constructed and imported geometry using Mastercam.	Completion of capstone projects in MCNC-76H and 76M			

ICC 1: Communication and expression
ICC 2: Information literacy
ICC 3: Physical/mental wellness and personal responsibility
ICC 4: Global, cultural, social and environmental awareness
ICC 4 Critical thinking

DE ANZA COLLEGE
Student Learning Outcomes (SLOs) Assessment Report
Mapping Program Level Outcomes to Institutional Core Competencies

Program/Certificate/Degree Name: Manufacturing Systems Technician Certificate of Achievement

Date: 4/15/2011

Division (if applicable): Applied Technologies

Program Contact Person: Mike Appio

Phone: 8283

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Name as DEPT_PLO_ProgramName.xls **Submit as e-mail attachment to outcomes@deanza.edu**

ICC Number #'s	Program Level Outcomes	Means of Assessment and Criteria for Success	Summary of Data Collected	Use of Results	Timeline for Program Modification
5	1. Demonstrate safe operation of basic and specialized equipment.	Completion of capstone project in MCNC-77			
5	2. Demonstrate entry level programming skills for computer numerical controlled equipment	Completion of capstone project in MCNC-75A			
2,5	3. Analyze, construct, and inspect parts/diagrams to repair physical and electrical components	N/A			

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ICC 4: Global, cultural, social and environmental awareness
ICC 4 Critical thinking

DE ANZA COLLEGE
Student Learning Outcomes (SLOs) Assessment Report
Mapping Program Level Outcomes to Institutional Core Competencies

Program/Certificate/Degree Name: CNC Research and Development Machinist Certificate of Achievement Advanced

Date: 4/15/2011

Division (if applicable): Applied Technologies

Program Contact Person: Mike Appio

Phone: 8283

See instructions for ICCs reference numbers "Expanded ICCs" tab below. Every program will need an individual sheet. Attach additional pages as necessary.

Name as DEPT_PLO_ProgramName.xls **Submit as e-mail attachment to outcomes@deanza.edu**

ICC Number #'s	Program Level Outcomes	Means of Assessment and Criteria for Success	Summary of Data Collected	Use of Results	Timeline for Program Modification
2,5	1. Construct and inspect machined projects using CNC equipment with word address programs.	Completion of capstone projects in MCNC-75B and 75C			
2	2. Apply geometric dimensioning and tolerance standards to inspect drawings and inspect parts using a coordinate measuring machine.	MCNC-72 in class objective test			
4	3. Differentiate and analyze the materials and processes used in manufacturing.	Completion of capstone project in MCNC-64			
2	4. Analyze, construct, and inspect/diagrams to repair physical and electrical components.	N/A			
5	5. Produce toolpaths with constructed and imported geometry using Mastercam.	Completion of capstone projects in MCNC-76H and 76M			

ICC 1: Communication and expression
ICC 2: Information literacy
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ICC 4: Global, cultural, social and environmental awareness
ICC 4 Critical thinking

DE ANZA COLLEGE
Student Learning Outcomes (SLOs) Assessment Report
Mapping Program Level Outcomes to Institutional Core Competencies

Program/Certificate/Degree Name:
CNC Research and Development Machinist A.S.

Date:
4/15/2011

Division (if applicable):
Applied Technologies

Program Contact Person:
Mike Appio

Phone:
8283

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2	2. Apply geometric dimensioning and tolerance standards to inspect drawings and inspect parts using a coordinate measuring machine.	MCNC-72 in class objective test			
4	3. Differentiate and analyze the materials and processes used in manufacturing.	Completion of capstone project in MCNC-64			
2	4. Analyze, construct, and inspect/diagrams to repair physical and electrical components.	N/A			
5	5. Produce toolpaths with constructed and imported geometry using Mastercam.	Completion of capstone projects in MCNC-76H and 76M			

ICC 1: Communication and expression
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ICC 4 Critical thinking

DE ANZA COLLEGE
Student Learning Outcomes (SLOs) Assessment Report
Mapping Program Level Outcomes to Institutional Core Competencies

Program/Certificate/Degree Name: CNC Machinist Certificate of Achievement -Advanced

Date: 4/15/2011

Division (if applicable): Applied Technologies

Program Contact Person: Mike Appio

Phone: 8283

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2	2. Apply geometric dimensioning and tolerance standards to inspect drawings and inspect parts using a coordinate measuring machine.	MCNC-72 in class objective test			
4	3. Differentiate and analyze the materials and processes used in manufacturing.	Completion of capstone project in MCNC-64			
5	4. Produce toolpaths with constructed and imported geometry using Mastercam.	Completion of capstone projects in MCNC-76H and 76M			
1,5	5. Advanced machining skills by independently constructing projects.	Completion of capstone project in MCNC-56			

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DE ANZA COLLEGE
Student Learning Outcomes (SLOs) Assessment Report
Mapping Program Level Outcomes to Institutional Core Competencies

Program/Certificate/Degree Name: CNC Machinist A.S.
Date: 4/15/2011
Division (if applicable): Applied Technologies
Program Contact Person: Mike Appio
Phone: 8283

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2	2. Apply geometric dimensioning and tolerance standards to inspect drawings and inspect parts using a coordinate measuring machine.	MCNC-72 in class objective test			
4	3. Differentiate and analyze the materials and processes used in manufacturing.	Completion of capstone project in MCNC-64			
5	4. Produce toolpaths with constructed and imported geometry using Mastercam.	Completion of capstone projects in MCNC-76H and 76M			
1,5	5. Advanced machining skills by independently constructing projects.	Completion of capstone project in MCNC-56			

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ICC 4 Critical thinking

DE ANZA COLLEGE
Student Learning Outcomes (SLOs) Assessment Report
Mapping Program Level Outcomes to Institutional Core Competencies

Program/Certificate/Degree Name: CNC machine Operator Skills Certificate

Date: 4/15/2011

Division (if applicable): Applied Technologies

Program Contact Person: Mike Appio

Phone: 8283

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ICC Number #'s	Program Level Outcomes	Means of Assessment and Criteria for Success	Summary of Data Collected	Use of Results	Timeline for Program Modification
5	1. Set up and operate conventional and CNC machines safely.	Completion of capstone projects in MCNC-71, 75A and 75B			
5	2. Construct and inspect machined projects using conventional and CNC equipment.	Completion of capstone projects in MCNC-71, 75A and 75B			
2,5	3. Construct word address programs to machine projects.	Completion of capstone project in MCNC-75B			

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DE ANZA COLLEGE
Student Learning Outcomes (SLOs) Assessment Report
Mapping Program Level Outcomes to Institutional Core Competencies

Program/Certificate/Degree Name: Product Model Making Certificate of Achievement Advanced

Date: 4/15/2011

Division (if applicable): Applied Technologies

Program Contact Person: Mike Appio

Phone: 8283

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5	3. Create part geometry using Solidworks/Pro Engineer cad software.	N/A			
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