

2015-2016 Certificate of Proficiency Worksheet

Machining Technician

Name _____ SID _____ Date _____ Advisor _____

Machinists operate various types of material-removing equipment such as lathes, milling machines, grinders, and computerized numerical control (CNC) machines. Some machinists specialize in the operation of one type of machine while others work in a shop where they are required to perform equally well on several different machines. Clark College's program offers instruction in numerous machine processes including the set-up and operation of the engine lathe, surface grinders, vertical mill, CNC lathes, EDM and CNC milling machines.

Program Distribution

General Education Requirements: 9-15 credits

Courses listed below must be completed with a "C" or better.

• Communication Skills — 3 credits minimum		
• Computational Skills — 3 credits minimum		
• Human Relations — 3 credits minimum		
TOTAL		
NEEDED		

Major Area Requirements: 94 credits

Courses listed below must be completed with a "C" or better.

MACH 111 Basic General Machining Processes	5		
MACH 112 Basic Engine Lathe Processes I	5		
MACH 113 Basic Vertical Milling Processes I	5		
MACH 121 Basic Surface Grinder Processes I	5		
MACH 122 Basic Engine Lathe Processes II	5		
MACH 123 Basic Vertical Milling Processes II	5		
MACH 131 Basic Surface Grinder Processes II	5		
MACH 132 Basic Engine Lathe Processes III	5		
MACH 133 Basic Vertical Milling Processes III	5		
MACH 241 Advanced Precision Measurement	5		
MACH 242 Intro to CNC Lathe Conversational Prog.	5		
MACH 243 Intro to CNC Mill Conversational Prog.	5		
MACH 251 Tooling Concepts	5		
MACH 252 CNC Lathe Setup and Operation	5		
MACH 253 CNC Milling Setup and Operation	5		
MACH 261 Advanced EDM Processes	5		
MACH 262 Advanced CNC Lathe Prog.	5		
MACH 263 Advanced Milling 3D Prog. and Mach.	5		
• Related Required Classes			
MACH 235 Elementary Metallurgy	2		
MACH 236 Elementary Metallurgy Lab	2		
TOTAL			
NEEDED			

Advising Notes & Degree Requirements

- This worksheet is only for advising purposes. Official approval of credits for degree completion is subject to approval from the Credential Evaluations Office: credeval@clark.edu
- Consult with an academic advisor on a regular basis for degree completion planning. Contact the Advising Center to locate an academic advisor. Call (360) 992-2345 or visit us online at: www.clark.edu/advising
- Must earn a cumulative GPA of 2.00 in all coursework taken at Clark College, and in all courses applied to the certificate. Fifteen (15) credits minimum must be completed at Clark College to meet Academic Residency.
- Courses do not always follow numbering sequence, please refer to the [College Catalog](#) for prerequisites and for info on quarterly class offerings refer to the [Annual Class Planner](#).

= course that is currently in-progress

TOTAL CREDITS REQUIRED: 103	NEEDS: <input style="width: 40px;" type="text"/>
Student Signature: _____	
Advisor Signature: _____	

Certificate of Proficiency (CP)

The Certificate of Proficiency is designed for students who wish to receive specialized occupational training for a specific career objective. Students must maintain a cumulative GPA of 2.00 and take a minimum of forty-five (45) credits to receive this certificate. Students are required to complete a minimum of fifteen (15) credits at Clark College to meet the Academic Residency requirement.

General Education Requirements

Note: Some specific requirements of a program may also meet the General Education Requirements.

Communication Skills [C] – Complete a minimum of three (3) credits from the following course choices:

- BTEC 106 or 107
- BUS 211
- ENGL 097, 098, 103, 135, 212
- ENGL& 101, 102, 235
- Any PTWR course

(Note) Pharmacy Technician students may meet the Communication Skills requirement by achieving one of the following:

1. Completion of ENGL 098 and a score of 74 on Reading Skills
2. COMPASS test score of 78 on Writing skills AND completion of CAP 087/READ 087
3. COMPASS test score of 78 on Writing skills AND a score of 74 on Reading skills

Computational Skills [CP] – Complete a minimum of three (3) credits from the following course choices:

- Any Mathematics (MATH/MATH&) course, except MATH 096
- Computer Science & Engineering – CSE 121, 222, 223, 224, CS& 131, CS& 141
- Business – BUS 102
- Business Technology Medical Office – BMED 103
- Computer Technology – Any CTEC course except CTEC 102, 103, 104, 105, 115, 180, 181, 200, or 281
- Chemistry – CHEM 095
- Pharmacy Technician – PHAR 110
- Professional Technical Computational Skills – PTCS 110
- Environmental Science – ENVS 135

Human Relations [HR] – Complete a minimum of three (3) credits from the following course choices:

- Addiction Counselor Education – ACED 101, 201
- Business Medical Office – BMED 166, 225, 226
- Business Technology – BTEC 140, 141, 143, 145, 148
- College Preparation – COLL 101
- Communication Studies – CMST& 210, 230
- Education – EDUC& 150
- Human Development – HDEV 105, 123, 155, 175, 186, 195, 198, 200
- Management – BUS& 101; MGMT 101, 106, 110, 112, 120, 122, 125, 128, 132
- Psychology – PSYC& 100, 200; PSYC 203
- Sociology – SOC& 101, 201; SOC 121, 131, 220
- Women's Studies – WS 101

NOTES:

Short-Term Plan:

Specific Requirements in an Occupational Field

Refer to the prescribed curriculum in the catalog for specific coursework.