

COURSE OUTLINE: MAC105 - BENCHWORKING

Prepared: Peter Corbett

Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	MAC105: BENCHWORKING TECHNIQUES
Program Number: Name	6345: GENERAL MACHINIST
Department:	MECHANICAL TECHNIQUES PS
Semesters/Terms:	22W, 22F, 23W
Course Description:	Upon successful completion the apprentice is able to use benchworking techniques, tools, and equipment to fit and assemble components
Total Credits:	2
Hours/Week:	3
Total Hours:	12
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Essential Employability Skills (EES) addressed in this course:	EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience. EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication. EES 3 Execute mathematical operations accurately. EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 6 Locate, select, organize, and document information using appropriate technology and information systems. EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others. EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals. EES 10 Manage the use of time and other resources to complete projects. EES 11 Take responsibility for ones own actions, decisions, and consequences.
Course Evaluation:	
Other Course Evaluation & Assessment Requirements:	Other Course Evaluation Requirements: Smart watches, smart phones and similar devices are not allowed during tests or quizzes and must be removed. Grade Definition Grade Point Equivalent A+ 90 - 100% 4.00

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2021-2022 academic year.



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A 80 - 89% B 70 - 79% 3.00 C 60 - 69% 2.00 D 50 - 59% 1.00 F (Fail)49% and below 0.00 CR (Credit) Credit for diploma requirements has been awarded. S Satisfactory achievement in field /clinical placement or non-graded subject area. U Unsatisfactory achievement in field/clinical placement or non-graded subject area. X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course. NR Grade not reported to Registrar's office. W Student has withdrawn from the course without academic penalty. **Books and Required** Technology of Machine Tools by Steve F. Krar, Arthur R. Gill, Peter Smid, Robert J. Gerritsen Resources: Publisher: McGraw Hill Edition: 8th ISBN: 9781260565782 Course Outcomes and **Course Outcome 1 Learning Objectives for Course Outcome 1** Learning Objectives: 1.1 Select bench or hand tools for benchworking operations. (3 hrs) **Course Outcome 2 Learning Objectives for Course Outcome 2** 1.2 Set up bench workholding devices and support accessories. (3 hrs) **Course Outcome 3** Learning Objectives for Course Outcome 3 1.3 Perform benchwork metal removal procedures. (3 hrs) Course Outcome 4 Learning Objectives for Course Outcome 4 1.4 Select mechanical fasteners. (3 hrs) **Evaluation Process and Evaluation Type Evaluation Weight Grading System:** Practical 50% Quizzes and tests 50%

Date:

January 6, 2022

Addendum:

Please refer to the course outline addendum on the Learning Management System for further information.

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