

COURSE OUTLINE: MAC108 - TURNING TECH

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Course Code: Title	MAC108: TURNING TECHNOLOGY				
Program Number: Name	6345: GENERAL MACHINIST				
Department:	MECHANICAL TECHNIQUES PS				
Academic Year:	2024-2025				
Course Description:	Upon successful completion the apprentice is able to use a lathe to: parallel turn and face, centre drill, parallel turn to a shoulder, turn external tapers or angles, cut chamfers and external screw threads, drill and ream.				
Total Credits:	4				
Hours/Week:	8				
Total Hours:	36				
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:	Passing Grade: 70%, B A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.				
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.				



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Definition Grade Point Equivalent

A+ 90 - 100% 4.00

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 Resources:

Technology of Machine Tools by Steve F. Krar, Arthur R. Gill, Peter Smid, Robert J. Gerritsen

Publisher: McGraw Hill Edition: 9th

ISBN: 9781266277474

Technology of Machine Tools Student Workbook by Steve F. Krar, Arthur R. Gill, Peter Smid

Publisher: McGraw Hill Edition: 9th

ISBN: 9781266321054

Course Outcomes and **Learning Objectives:**

Course Outcome 1	Learning Objectives for Course Outcome 1
1.1 Demonstrate safe working procedures when setting up and operating a lathe.	
Course Outcome 2	Learning Objectives for Course Outcome 2
1.2 Set up lathe machine components, controls, and coolant requirements. (1.5 hrs)	
Course Outcome 3	Learning Objectives for Course Outcome 3
1.3 Set up lathe workholding devices. (5 hrs)	
Course Outcome 4	Learning Objectives for Course Outcome 4
1.4 Set up lathe cutting tools and tool holders. (8 hrs)	
Course Outcome 5	Learning Objectives for Course Outcome 5
1.5 Develop a plan for turning operations. (8 hrs)	
Course Outcome 6	Learning Objectives for Course Outcome 6
1.6 Perform turning. (13 hrs)	



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	1.7 Perform routine maintenance. (0.5 hrs)		Learning Objectives for Course Outcome 7		
Evaluation Process and	Evaluation Type	Evaluati	on Woight		
Grading System:	Evaluation Type	Evaluati	on weight		
	Practical	65%			
	Quizzes and tests	35%			
Date:	August 19, 2024				
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.				

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