

Program: Manufacturing Technology

CIP: 15.0613

SCANS Matrix

Program: Vocational Science

LIST ALL COURSES REQUIRED AND IDENTIFIED COMPETENCIES

Competencies								Course Number	Course Title	
1	2	3	4	5	6	7	8	Course Number	Course ritte	
Х	Χ	Χ	Χ	Χ	Χ	Χ	Х	INMT 1305	Introduction to Industrial Maintenance	
Χ	Х	Χ	Х	Х	Х	Х	Χ	INMT 2303	Pumps, Compressors, & Mechanical Drives	
Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	QCTC 1446	Testing & Inspection Systems	
Χ	Χ	Х	Χ	Χ	Х	Х	Х	INMT 1491	Special Topics in Manufacturing	
									Technology/Technician	
Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	HYDR 1450	Hydraulic Fabrication & Repairs	
Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	MCHN 2403	Fundamentals of Computer Numerical	
									Controlled (CNC) Machine Controls	
			Χ	Χ	Χ	Χ		INMT 1480	Cooperative Education – Manufacturing	
									Technology/Technician	

COMPETENCY REFERENCES

COMI ETENCI NEI ERENCES						
8 Basic use of computers						
			7 Workplace Competencies: resources; interpersonal skills; information; systems;			
			and technology.			
		6	ersonal Qualities: A worker must display responsibility, self-esteem, sociability, self-			
		m	agement, integrity, and honesty.			
5 T h			ninking Skills: A worker must think creatively, make decisions, solve problems, visualize,			
know how			v to learn, and reason effectively.			
4 Speaking and		king an	d Listening: Organize ideas and communicate orally; receive, attend to, interpret, and			
respond to verba			bal messages and other cues.			
2 4	2 Arithmetic of Both constitution Designation and an arithmetic of the constitution and an arithmetic of the constitution of t					

- 3 **Arithmetic or Mathematics**: Perform basic computations and approach practical problems by choosing appropriately from a variety of mathematical techniques.
- 2 **Writing**: Communicate thoughts, ideas, information, and messages in writing, and create documents such as letters, directions, manuals, reports, graphs, and flow charts.
- 1 **Reading**: Locate, understand, and interpret written information in prose and in documents such as manuals, graphs, and schedules.

SCANS Competencies Checklist

Academic Year: 2023-2024

SCANS COMPETENCIES FOR PROGRAM: Manufacturing Technology

MCHN 2403 reading and i manuals and documentati Student Defic area will initi cause analysi	read and assigned ue instruction in interpreting ion. ciencies in this
information in prose and in documents such as manuals, graphs, and schedules. HYDR 1450 MCHN 2403 MCHN 2403 Assessments. Exam / hands-on interpreted a performance analysis materials. Plan: Continu reading and i manuals and documentati Student Defici area will initi cause analysis	ue instruction in interpreting ion.
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2 WRITING: Communicate INMT 1305 Periodic written quizzes and 100% of student	
exams. Hands-on laboratory successfully wro	
and messages in writing, and QCTC 1446 assessments. Exam / hands-on procedures and performance analysis assigned materials.	
Plan: Continue i	instruction in
letters, directions, manuals, HYDR 1450 procedure writing and documentate	
reports, graphs, and flow charts. MCHN 2403 Deficiencies in the initiate immediate in the initiate initiate in the initiate in the initiate initiate initiate in the initiate initi	
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analysis leading implementation of	of corrective
action.	
3 ARITHMETIC OR INMT 1305 Periodic written quizzes and exams.	
MATHEMATICS: Perform basic INM1 2303 Hands-on laboratory computations rec	quired for
computations and approach QCTC 1446 assessments. assigned material Exam / hands-on Plan: Continue in the conti	
practical problems by choosing INMT 1491 Exam / hards-on performance analysis calculations and	
appropriately from a variety of HYDR 1450 required in indus	
mathematical techniques. MCHN 2403 Deficiencies in the initiate immediate i	
analysis leading	to immediate
implementation of action.	of corrective
4 SPEAKING AND LISTENING INMT 1305 Periodic written quizzes and 100% of student	
lo successfully c	
communicate orally; receive, QCTC 1446 Hands-on laboratory Plans and instruction of the plant and i	
Exam / hands-on materials.	
respond to verbal messages and HYDR 1450 performance analysis plan: Continue i	
communications	•
other cues. MCHN 2403 Deficiencies in the initiate immediate.	
analysis leading	
implementation of	
5 THINKING SKILLS: A worker INMT 1305 Periodic written quizzes and 100% of student	ts were able
INMT 2303 exams to troubleshoot a	
must think creatively, make QCTC 1446 Hands-on laboratory problems in assi	igned
HVDP 1/50 Evam / hands-on Plan: Continue t	to instruct
visualize, know how to learn, MCHN 2403 performance analysis students in troub	
and reason effectively. and problem solve the p	
initiate immediat	
analysis leading	
implementation of action.	or corrective

Competency	Course where Competency is Assessed	Method of Assessment	Improvements as a Result of Assessment Findings
6 PERSONAL QUALITIES: A worker must display responsibility, self-esteem, sociability, self-management, integrity, and honesty.	INMT 1305 INMT 2303 QCTC 1446 INMT 1491 HYDR 1450 MCHN 2403	Periodic written quizzes and exams. Hands-on laboratory assessments. Exam / hands-on performance analysis	100% of students were able to display personal qualities required for a manufacturing work environment. Plan: Continue to teach proper personal qualities. Student Deficiencies in this area will initiate immediate cause analysis leading to immediate implementation of corrective action.
7 WORKPLACE COMPETENCIES: resources; interpersonal skills; information; systems; and technology	INMT 1305 INMT 2303 INMT 1480 QCTC 1446 INMT 1491 HYDR 1450 MCHN 2403	Periodic written quizzes and exams. Hands-on laboratory assessments. Exam / hands-on performance analysis	100% of students were able to display workplace competencies required for a manufacturing work environment. Plan: Continue to teach proper workplace competencies. Student Deficiencies in this area will initiate immediate cause analysis leading to immediate implementation of corrective action.
8 BASIC USE OF COMPUTERS	INMT 1305 INMT 2303 QCTC 1446 INMT 1491 HYDR 1450 MCHN 2403	Periodic written quizzes and exams. Hands-on laboratory assessments. Exam / hands-on performance analysis	100% of students were able to utilize computers to access information required to complete tasks assigned. Plan: Continue instructing students on how to locate the appropriate information via computer. Student Deficiencies in this area will initiate immediate cause analysis leading to immediate implementation of corrective action.