MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. ELUT	COURSE NUMBER: 2110
NUMBER OF CREDITS: 2	Lecture: 1 Lab: 1 OJT 0
Course Title:	
Transformer Banking II	
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Catalog Description:	
Transformer Banking II is a continuation of Transforme single-phase power banks and auto transformers used in small and large blocks of power.	<u> </u>
Prerequisites or Necessary Entry Skills/Know	vledge:
ELUT 1110	, reaser
FULFILLS MN TRANSFER CURRICULUM	I AREA(S)
☐Goal 1: Communication: By meeting the following competencies:	
☐Goal 2: Critical Thinking: By meeting the following competencies:	
☐Goal 3: Natural Sciences: By meeting the following co	ompetencies:
☐Goal 4: Mathematics/Logical Reasoning: By meeting t	-
☐Goal 5: History and the Social and Behavioral Science competencies:	
☐Goal 6: The Humanities and Fine Arts: By meeting the	e following competencies:
□Goal 7: Human Diversity: By meeting the following co	5 1
□Goal 8: Global Perspective: By meeting the following	-
☐Goal 9: Ethical and Civic Responsibility: By meeting t	1
□Goal 10: People and the Environment: By meeting the	
Education 1 copie and the Environment. By meeting the	following competencies.
Tanias to be Cavared	
Topics to be Covered	
Transformer components Auto transformers	
Ratio tests	
Nameplates	
Open Circuits	
Trouble shooting	
Voltage	
Current	
Construction and application of single phase, v phase, and	nd 3 phase

Student Learning Outcomes
Identify transformer components
Explain function and draw schematic of an autotransformer
Perform ratio test
Locate nameplate and interpret nameplate data
Determine cause of open circuit
Troubleshoot low-voltage complaint
Interpret codes used in abbreviated cooling
Calculate total power
Demonstrate transformer safety procedures
Is this course part of a transfer pathway: Yes □ No ☒

Revised Date: October, 2020