## MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. RNEW	<b>COURSE NUMBER: 1110</b>
NUMBER OF CREDITS: 1	Lecture: 1 Lab: 0 OJT: 0
Course Title:	
Boiler Systems	
Catalog Description:	
Boiler Systems covers fuel combustion principles, ste Students will gain an understanding of the equipment safe and efficient procedures that are in line with regr	t, its operation and maintenance to ensure
Prerequisites or Necessary Entry Skills/Kn	owledge:
None	
FULFILLS MN TRANSFER CURRICULU applicable)  □Goal 1: Communication: By meeting the following □Goal 2: Critical Thinking: By meeting the following □Goal 3: Natural Sciences: By meeting the following □Goal 4: Mathematics/Logical Reasoning: By meeting □Goal 5: History and the Social and Behavioral Science competencies: □Goal 6: The Humanities and Fine Arts: By meeting □Goal 7: Human Diversity: By meeting the following □Goal 8: Global Perspective: By meeting the following □Goal 9: Ethical and Civic Responsibility: By meeting □Goal 10: People and the Environment: By meeting the	g competencies: g competencies: g the following competencies: nces: By meeting the following the following competencies: g competencies: g competencies: ng the following competencies: ng the following competencies:
<b>Topics to be Covered</b>	
Boiler fittings	
Feedwater systems	
Steam systems	
Fuel systems	
Draft systems  Reilan water treatment	
Boiler water treatment	
Boiler operations procedures  Hot water heating systems	
Cooling systems	

Boiler operation safety	
Boiler licensing	
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Student Learning Outcomes	
Describe the operating principles and functions of boiler fittings.	
Identify feedwater system accessories and describe their functions.	
Identify steam system accessories and describe their functions.	
Identify fuel system accessories and describe their functions.	
Describe draft and draft systems used in boiler operation.	
Describe boiler water conditions that can affect boiler operation and efficiency.	
Identify routine procedures commonly followed when taking over a shift.	
Identify safety practices and procedures for boiler fittings, systems and operations.	
Is this course part of a transfer pathway: Yes □ No ☒	
*If yes, please list the competencies below	

Revised Date: 3/29/2022