



COURSE OUTLINE

STM862

Prepared: Mike King Approved: Corey Meunier

Course Code: Title	STM862: STEAMFITTING SYSTEMS II
Program Number: Name	6232: STEAMFITTING ADV
Department:	PIPING TRADES
Semester/Term:	18S
Course Description:	Steamfitting Systems III will provide the apprentice with basic knowledge in various piping systems which may be installed in buildings such as medical gas, process piping, fire protection piping, Hydronic heating, refrigeration and air conditioning and the use of heat pumps
Total Credits:	15
Hours/Week:	15
Total Hours:	120
Essential Employability Skills (EES):	<p>#1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</p> <p>#2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>#3. Execute mathematical operations accurately.</p> <p>#4. Apply a systematic approach to solve problems.</p> <p>#5. Use a variety of thinking skills to anticipate and solve problems.</p> <p>#6. Locate, select, organize, and document information using appropriate technology and information systems.</p> <p>#7. Analyze, evaluate, and apply relevant information from a variety of sources.</p> <p>#8. Show respect for the diverse opinions, values, belief systems, and contributions of others.</p> <p>#9. Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.</p> <p>#10. Manage the use of time and other resources to complete projects.</p> <p>#11. Take responsibility for ones own actions, decisions, and consequences.</p>
Course Evaluation:	Passing Grade: 50%, D
Other Course Evaluation & Assessment Requirements:	<p>Theory testing 60%</p> <p>Application testing 10%</p> <p>Final Assessment 30%</p> <p>Grade</p>

	<p>Definition Grade Point Equivalent</p> <p>A+ 90 - 100% 4.00</p> <p>A 80 - 89%</p> <p>B 70 - 79% 3.00</p> <p>C 60 - 69% 2.00</p> <p>D 50 - 59% 1.00</p> <p>F (Fail) 49% and below 0.00</p> <p>CR (Credit) Credit for diploma requirements has been awarded.</p> <p>S Satisfactory achievement in field /clinical placement or non-graded subject area.</p> <p>U Unsatisfactory achievement in field/clinical placement or non-graded subject area.</p> <p>X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.</p> <p>NR Grade not reported to Registrar's office.</p> <p>W Student has withdrawn from the course without academic penalty.</p>				
Evaluation Process and Grading System:	<table border="1"> <thead> <tr> <th>Evaluation Type</th><th>Evaluation Weight</th></tr> </thead> <tbody> <tr> <td>instructors tests</td><td>100%</td></tr> </tbody> </table>	Evaluation Type	Evaluation Weight	instructors tests	100%
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instructors tests	100%				
Books and Required Resources:	<p>modules by Ministry of Ontario</p> <p>handouts by instructors</p>				
Course Outcomes and Learning Objectives:	<p>Course Outcome 1.</p> <p>Upon successful completion the apprentice is able to identify and explain a variety of process piping systems.</p> <p>Learning Objectives 1.</p> <p>Understand and relate to the basic principles of safety, operation, installation and government standards for the following process piping systems.</p> <p>Process piping systems</p> <p>Fuel gas systems</p> <p>Hydronic heating systems</p> <p>Refrigeration systems</p> <p>Air Conditioning systems</p> <p>Heat Pump systems</p> <p>Medical Gas systems</p> <p>Sprinkler and Standpipe Installations</p> <p>Building heat loss calculations</p> <p>Psychometrics</p>				
Date:	Wednesday, April 25, 2018				
	Please refer to the course outline addendum on the Learning Management System for further information.				