



COURSE OUTLINE: ELN210 - CAD/TOOLS

Prepared: Jon Pasiak

Approved: Corey Meunier, Dean, Technology, Trades, and Apprenticeship

Course Code: Title	ELN210: COMPUTER AIDED DESIGN
Program Number: Name	4026: ELECTRICAL TN-PROC 4029: ELECTRICAL TY-PROCES 4127: ELECTRICAL TN-TRADES
Department:	ELECT./INSTRUMENTATION PS
Academic Year:	2024-2025
Course Description:	This course is designed to develop skills in the use of the AutoCAD, to generate and modify AutoCAD drawings, electrical/electronic schematics and diagrams. This course will prepare the student for the automated drafting environment.
Total Credits:	3
Hours/Week:	2
Total Hours:	28
Prerequisites:	ELN100
Corequisites:	There are no co-requisites for this course.
Substitutes:	ELR508
This course is a pre-requisite for:	ELR216
Vocational Learning Outcomes (VLO's) addressed in this course:	<p>4026 - ELECTRICAL TN-PROC</p> <p>VLO 1 Interpret and produce electrical and electronics drawings including other related documents and graphics.</p> <p>VLO 8 Use computer skills and tools to solve routine electrical related problems.</p> <p>VLO 10 Prepare and maintain records and documentation systems.</p> <p>4029 - ELECTRICAL TY-PROCES</p> <p>VLO 1 Analyze, interpret, and produce electrical and electronics drawings, technical reports including other related documents and graphics.</p> <p>VLO 8 Use computer skills and tools to solve a range of electrical related problems.</p> <p>VLO 10 Prepare reports and maintain records and documentation systems.</p> <p>4127 - ELECTRICAL TN-TRADES</p> <p>VLO 1 Interpret and produce electrical and electronic drawings including other related documents and graphics.</p> <p>VLO 8 Use computer skills and tools to solve routine electrical related problems.</p> <p>VLO 10 Prepare and maintain records and documentation systems.</p>

Please refer to program web page for a complete listing of program outcomes where applicable.



Essential Employability Skills (EES) addressed in this course:	<p>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.</p> <p>EES 6 Locate, select, organize, and document information using appropriate technology and information systems.</p> <p>EES 10 Manage the use of time and other resources to complete projects.</p>						
Course Evaluation:	<p>Passing Grade: 50%, D</p> <p>A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.</p>						
Other Course Evaluation & Assessment Requirements:	<p>Grade 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</p> <p>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.</p>						
Course Outcomes and Learning Objectives:	<table border="1"> <thead> <tr> <th>Course Outcome 1</th> <th>Learning Objectives for Course Outcome 1</th> </tr> </thead> <tbody> <tr> <td>1. Correctly utilize AutoCAD menu and command structure to produce and modify AutoCAD drawings, electrical schematics, and diagrams.</td> <td>1.1 Correctly utilize the AutoCAD menus and commands. 1.2 Produce and modify schematic diagrams and electrical related diagrams with correct and accurate connections and labelling.</td> </tr> </tbody> </table>	Course Outcome 1	Learning Objectives for Course Outcome 1	1. Correctly utilize AutoCAD menu and command structure to produce and modify AutoCAD drawings, electrical schematics, and diagrams.	1.1 Correctly utilize the AutoCAD menus and commands. 1.2 Produce and modify schematic diagrams and electrical related diagrams with correct and accurate connections and labelling.		
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Evaluation Process and Grading System:	<table border="1"> <thead> <tr> <th>Evaluation Type</th> <th>Evaluation Weight</th> </tr> </thead> <tbody> <tr> <td>In Class Work</td> <td>10%</td> </tr> <tr> <td>Take Home Assignments</td> <td>90%</td> </tr> </tbody> </table>	Evaluation Type	Evaluation Weight	In Class Work	10%	Take Home Assignments	90%
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Date:	August 9, 2024						
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.						