

## 2.2.1 Apprenticeship and Trades Certification Division, Department of Advanced Education, Skills and Labour

The Department of Advanced Education, Skills and Labour through the Apprenticeship and Trades Certification Division is responsible for the registration of apprentices in Newfoundland and Labrador. Course credits will be awarded to apprentices registered in a program offered at a recognized training institution. For more information on apprenticeship training, please contact:

Department of Advanced Education, Skills and Labour  
 Apprenticeship and Trades Certification Division  
 West Block, Confederation Building  
 St. John's, NL  
 A1B 4J6  
 Phone: (709) 729-2729 or 1-877-771-3737  
 E-mail: app@gov.nl.ca.  
 Website: <http://www.gov.nl.ca/aesl>

<b>Sending Institution</b>	<b>Receiving Institution</b>
<b>College of the North Atlantic</b>	<b>Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division</b>
<b>Electronic Engineering Technology (Instrumentation)</b>	
Industrial Instrumentation Practices PE2700	Occupational Health and Safety TS1510
Industrial Instrumentation Practices PE2700	WHMIS TS1520
Industrial Instrumentation Practices PE2700	Standard First Aid TS1530
Engineering Graphics EG1110 AutoCAD Essentials EG1430 Electronic Computer Aided Design I DR2410 Process Measurement I CI2800 Process Control I CI2810 Industrial Instrumentation Practices PE2700	Drawings, Schematics and Specifications ER1201
Electrotechnology ET1100	Direct Current (DC) Theory ER1140
Electrotechnology ET1100	Series and Parallel DC Circuits ER1151
Electrotechnology ET1101	Voltage Drop and Power Loss ER1170

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<b>College of the North Atlantic</b>	<b>Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division</b>
Electrotechnology ET1100 Electronic Devices AE1200 Industrial Instrumentation Practices PE2700	Conductors and Cables ER1510
Instrumentation (Hydraulics and Pneumatics) CI2240 Industrial Instrumentation Practices PE2700	Pneumatic Supply Systems I ER2470
Instrumentation (Hydraulics and Pneumatics) CI2240 Industrial Instrumentation Practices PE2700	Pneumatic Supply Systems II ER2480
Process Measurement I CI2800 Process Measurement II CI2801 Industrial Instrumentation Practices PE2700	Introduction to Pressure Measurement and Calibration ER1420
Industrial Instrumentation Practices PE2700	Tubing and Piping Systems ER1520
Physics PH1100 Physics PH1101 Process Measurement I CI2800	Introduction to Fluids ER1530
Process Measurement I CI2800 Process Measurement II CI2801 Industrial Instrumentation Practices PE2700	Flow Measurement ER1430
Process Measurement I CI2800 Process Measurement II CI2801 Industrial Instrumentation Practices PE2700	Level & Density Measurement ER1440
Process Measurement I CI2800 Process Measurement II CI2801 Industrial Instrumentation Practices PE2700	Temperature Measurement ER1450

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<b>College of the North Atlantic</b>	<b>Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division</b>
Process Measurement I CI2800 Process Measurement II CI2801 Industrial Instrumentation Practices PE2700	Equipment Monitoring Devices ER2580
Industrial Communication Systems CE2800 Process Measurement I CI2800 Process Measurement II CI2801 Industrial Instrumentation Practices PE2700	Signal Transmission Systems ER1711
Electronic Devices AE1200 Analog Electronics I AE2300 Analog Electronics II AE2301 Digital Systems I (Logic) DP1110 Electrotechnology ET1100 Electrotechnology ET1101	Electronics (Circuits and Components) ER1733
Instrumentation (Hydraulics and Pneumatics) CI2240	Hydraulic Supply Systems I ER2430 Hydraulic Supply Systems II ER2450
Industrial Instrumentation Practices PE2700	Compressors ER2460
Industrial Electronics and Power Systems MP3130	On-Off Control ER1741
Process Measurement II CI2801 Industrial Electronics and Power Systems MP3130	Final Control Elements ER2490
Electrotechnology ET1100 Electrotechnology ET1101	Single Phase Theory ER2530
Computer Control Systems CI3830	Power Supplies ER2540

Sending Institution	Receiving Institution
College of the North Atlantic	Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division
Chemistry CH1120 Chemistry CH1121 Introduction to Process Analyzers CI1500 Process Analyzers CI3820	Process Analyzers I (Solids and Liquids) ER2560  Process Analyzers II (Gases) ER2570
Electric Machines and Devices MP2100 Industrial Electronics and Power Systems MP3130	Drives and Motors ER2590
Programmable Logic Controller DP3100 Computer Control Systems CI3830 Human Machine Interface CE2900	Trade Related Computer Use ER2600
Human Machine Interface CE2900	Human Machine Interface Systems ER2610
Process Measurement I CI2800 Process Control I CI2810	Basic Process Control ER2620
Process Control II CI2811	Advanced Process Control ER2630
Programmable Logic Controller DP3100 Industrial Electronics and Power Systems MP3130	Programmable Logic Controller Systems ER2640
Computer Control Systems CI3830	Distributed Control Systems ER2650
Computer Control Systems CI3830	Supervisory Control and Data Acquisition Systems ER2660
Mathematics MA1700	Math Essentials AM1100
Mathematics MA1700 Mathematics MA1101 Mathematics MA2100 Mathematics MA2101	Instrumentation Math Fundamentals AM1190

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<b>College of the North Atlantic</b>	<b>Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division</b>
Technical Report Writing I CM1400 Technical Report Writing II CM1401 Oral Communications CM2200 Report Writing CM2300	Communication Essentials CM2160
Engineering Graphics EG1110 Technical Report Writing I CM1400 Electronic Computer Aided Design I DR2410 Computer Control Systems CI3830 Engineering Economics EC1700 Engineering Management CG3400 AutoCAD Essentials EG1430	Computer Essentials MC1060

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<b>Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division</b>	<b>College of the North Atlantic</b>
<b>Instrumentation and Control Technician</b>	
DC Theory ER1140 Series and Parallel DC Circuits ER1151 Voltage Drop and Power Loss ER1170	Electrotechnology ET1100
Introduction to Pressure Measurement and Calibration ER1420 Flow Measurement ER1430 Level & Density Measurement ER1440 Temperature Measurement ER1450 Equipment Monitoring Devices ER2580	Process Measurement I CI2800

Introduction to Pressure Measurement and Calibration ER1420 Flow Measurement ER1430 Level & Density Measurement ER1440 Temperature Measurement ER1450 Equipment Monitoring Devices ER2580	Process Measurement II CI2801
Basic Process Control ER2620 Advanced Process Control ER2630	Process Control I CI2810
Basic Process Control ER2620 Advanced Process Control ER2630	Process Control I CI2811

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<b>College of the North Atlantic</b>	<b>Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division</b>
<b>Electrical Engineering Technology (Power and Controls)</b>	
Electrical/Electronic Fabrication Techniques CI1310	WHMIS TS1520
Electrical Practices PE2500 Electrical/Electronic Fabrication Techniques CI1310	Tools and Equipment ER1112
Engineering Graphics for Electrical DR2320 Electrical Practices (Facility Design) PE3101 Electrical Practices (Facility Design) PE4110	Drawings, Schematics and Specifications ER1202
Engineering Graphics for Electrical DR2320 Electrical Practices (Facility Design) PE3101 Electrical Practices (Facility Design) PE4110	Electrical Drawings and Schematics ER1212
Electrical Practices PE2500 Electrical Practices PE2501	Introduction to the Canadian Electrical Code ER1161

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<b>College of the North Atlantic</b>	<b>Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division</b>
Electrotechnology ET1100	DC Theory ER1140
Electrotechnology ET2100 Electrotechnology ET1100	Series and Parallel DC Circuits ER1151
Electrotechnology ET1101 Electrotechnology ET2100	Single-Phase Theory ER1180
Electrical Practices PE2500	Conductors and Cables ER1231
Electrical Practices PE2500 Electrical/Electronic Fabrication Techniques CII310	Fundamental Wiring ER1242
Electrical Practices (Facility Design) PE3101 Electrical Practices (Facility Design) PE4110	Lighting Systems and Controls ER2011
AC Circuits MP2300	Three-Phase Theory ER1190
Electrotechnology ET1101	Voltage Drop and Power Loss ER1170
Electrical Practices (Facility Design) PE3101 Electrical Practices (Facility Design) PE4110	Single-Phase Service Entrance ER1271
Electrical Practices PE2500 Electrical Practices PE2501	Distribution Equipment ER1371
Electrical Practices PE2500 Electrical Practices PE2501 Motor Control Systems MP3110	Protective Devices ER1250
Electrical Practices PE2501	Single-Phase Motors ER2022
Electrical Practices (Facility Design) PE4110 Technical Thesis I PR2560	Job Planning ER1580
Electrical Practices (Facility Design) PE4110	Three-Phase Service Entrance ER1281

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<b>College of the North Atlantic</b>	<b>Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division</b>
Electrical Practices (Facility Design) PE3101	Electric Surface Heating Systems ER2351
Transformers MP2350	Transformers ER1262
Electrical Practices (Facility Design) PE4110	Fire Alarms ER1341
Electrical Practices (Facility Design) PE4110	Security Systems ER2142
Electrical Practices PE2500	Introduction to Communication and Trade Documentation ER1590
Instrumentation Controls and Automation CI1210 Motor Control Systems MP3110 Advanced Programmable Logic Controllers DP2540	Discrete Control Devices ER2042
Motor Control Systems MP3110	Motor Starters and Controls I ER2051
Motor Control Systems MP3110	Motor Starters and Controls II ER2055
Electrotechnology ET2100 DC Machines MP2910	DC Motors and Controls ER1301
DC Machines MP2910	DC Generators ER2241
Power Devices and Motor Drives MP3150 Electronic Devices AE1240	Power Supply and Rectifiers ER2074
AC Machines MP2920 Motor Control Systems MP3110 Electrical Practices (Facility Design) PE4110	Three-Phase Motors ER2031
AC Machines MP2920	AC Generators ER2251
Introduction to Programmable Logic Controllers DP1310	Digital Electronics ER4260



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Electrical Practices (Facility Design) PE3101 Power Systems: Analysis MP3215	High Voltage Wiring ER4140
Electrical Practices (Facility Design) PE4110	Exit/Emergency Lighting Systems ER4160
Emergency Stand-by Systems and Alternative Energy Sources MP3250	Emergency Stand-by Units ER4180
Introduction to Programmable Logic Controllers DP1310	Introduction to Programmable Logic Controllers ER4360
Advanced Programmable Logic Controllers DP2540	Introduction to Programmable Logic Controller Programming ER4380
Electronic Power Devices and Circuits AE2260 Power Devices and Motor Drives MP3150	Introduction to Analog Devices ER4440
Instrumentation Controls and Automation CI1210 Industrial Process Control CI3600	Analog Devices ER4460
Instrumentation Controls and Automation CI1210 Industrial Process Control CI3600	Process Control ER4480
Power Devices and Motor Drives MP3150	Drives ER4400
Emergency Stand-by Systems and Alternative Energy Sources MP3250	Alternative Power Systems ER4420

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<b>College of the North Atlantic</b>	<b>Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division</b>
<b>Electrical Engineering Technology (Power and Controls) – Related Courses</b>	
Mathematics MA1700 Physics PH1100	Math Essentials AM1100
Mathematics MA1101 Mathematics MA2100 Physics PH1101	Electrician Math Fundamentals AM1160
Technical Report Writing I CM1400 Technical Report Writing II CM1401 Oral/Written Communication Skills CM2800	Communication Essentials CM2160
Engineering Graphics for Electrical DR2320 Introduction to Programmable Logic Controllers DP1310 Oral/Written Communication Skills CM2800 Advanced Programmable Logic Controllers DP2540	Computer Essentials MC1060

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<b>Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division</b>	<b>College of the North Atlantic</b>
<b>Industrial Electrician</b>	
DC Theory ER1140 Series and Parallel DC Circuits ER1151 Voltage Drop and Power Loss ER1170	Electrotechnology ET1100

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<b>Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division</b>	<b>College of the North Atlantic</b>
Single-Phase Theory ER1180 Transformers ER1262 Three-Phase Theory ER1190	Electrotechnology ET1101

<b>Sending Institution</b>	<b>Receiving Institution</b>
<b>Marine Institute</b>	<b>Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division</b>
<b>Ocean Instrumentation</b>	
Electrotechnology ELTK1100	DC Theory ER1140
Electrotechnology ELTK1100	Series Parallel Circuits ER1151
Electrotechnology ELTK1100 Electrotechnology ELTK1200	Voltage Drop and Power Loss ER1170
Instrumentation, Controls and Automation CNTL2206 Advanced Controls CNTL3400	Introduction to Pressure Measurement & Calibration ER1420
Fluid Mechanics FLDS2100 Hydraulics and Pneumatics FDLS3100	Introduction to Fluids ER1530
Instrumentation, Controls and Automation CNTL2206 Advanced Controls CNTL3400	Flow Measurement ER1430
Instrumentation, Controls and Automation CNTL2206 Advanced Controls CNTL3400 Instrumentation, Controls and Automation CNTL3105	Level and Density Measurement ER1440

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<b>Marine Institute</b>	<b>Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division</b>
Instrumentation, Controls and Automation CNTL2206 Advanced Controls CNTL3400	Temperature Measurement ER1450
Instrumentation, Controls and Automation CNTL2206 Advanced Controls CNTL3400 Fiber Optics and Network Cabling ELTR2113 Digital Logic ELTR2102	Signal Transmission Systems ER1711
Basic Electronic Devices LETR1102 Digital Logic ELTR2102 Control Devices and Operational Amplifiers ELTR2213	Electronics (Circuits and Components) ER1733
Hydraulics and Pneumatics FLDS3100	Hydraulic Supply Systems I ER2430
Hydraulics and Pneumatics FLDS3100	Hydraulic Supply Systems II ER2450
Marine Electrical Safety and Standards ELTK1301 Electrotechnology ELTK2111 Instrumentation, Controls and Automation CNTL2206	On-Off Control Devices ER1741
Electrotechnology ELTK1200	Single-Phase Theory ER2530
Basic Electronic Devices ELTR1102	Power Supplies ER2540
Electrical Machines and Power Systems ELTK1303 AC Motor Controls CNTL2111 Advanced Programmable Logic Controllers – PLCs CNTL3201	Drives and Motors ER2590

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<b>Marine Institute</b>	<b>Department of Advanced Education, Skills and Labour, Apprenticeship and Trades Certification Division</b>
Programmable Logic Controllers – PLCs CNTL2207  Advanced Programmable Logic Controllers – PLCs CNTL3201	Trade Related Computer Use ER2600
Advanced Programmable Logic Controllers – PLCs CNTL3201	Human Machine Interface Systems ER2610
Instrumentation, Controls and Automation CNTL3105	Basic Process Control ER2620
Programmable Logic Controllers – PLCs CNTL2207	Programmable Logic Controller System ER2640
Introduction to Calculus MATH1101	Math Essentials AM1100
Introduction to Calculus MATH1101	Instrumentation & Control Math Fundamentals AM1190
Technical Communication I CMSK1102 Technical Communications II CMSK1201  Advanced Technical Communications MSTM4060	Communication Essentials CM2160

NOTE: There is no reverse transfer for this program as Marine Institute's "Ocean Instrumentation" program is currently under review.