

2017-2018 Schedule RENEWABLE ENERGY TRAINING – SOLAR



www.northernlakescollege.ca
Email: work@northernlakescollege.ca

Calling all Electricians!
Ready for a career in
renewable energy? Get
certification to install
Photovoltaic (Solar) panels!

Receive a certificate in PV when you
complete the following:

PV Pro Certificate:

Introduction to Renewable Energy
Sources, CSA PV Exam Preparation.

PV Installation Pro Certificate:

Introduction to Renewable Energy Sources,
CSA PV Exam Preparation, and Battery
Based OR Grid-Tie System Installation.

PV Business Pro Certificate:

Introduction to Renewable Energy Sources,
CSA PV Exam Preparation, Battery Based
OR Grid-Tie System Installation, Design
and Model, and Canadian Electrical Code
for Renewable Energy Systems.

PV Master Certificate:

Introduction to Renewable Energy Sources,
CSA PV Exam Preparation, Battery Based
OR Grid-Tie System Installation, Design
and Model, and Master Electrician.

 **Introduction to Renewable Energy
Sources**

This exploratory course provides a brief introduction to the exciting world of renewable energy systems and sources. Non-renewable energy sources by their very nature have limitations, while renewable energy is sustainable and well within our reach. Students in this course will look primarily at the two categories of renewable energy: electric and thermal. Additionally, basic electricity will be discussed as the core requirements for all the different generation technologies.

NLC LIVE Online
7:00 pm - 9:00 pm | Sept 12, Sept 14, 2017
Tuition \$149 + GST

**Canadian Standards Association (CSA)
Photovoltaic (PV) Exam Preparation**

Pre-requisite: Journeyman Electrician (or Red Seal)

This course is designed to appeal to those wanting to install solar electric systems with a home owner's permit, or those wishing to have an in-depth understanding of solar electric installations.

Slave Lake | 9:00 am - 6:00 pm
Sept 18 - Sept 22, 2017
Tuition \$1249 + GST | Materials \$99 + GST

Grid-Tie System Installation

Pre-requisites: 5 day CSA Exam Preparation course and a current Fall Arrest Certificate

You will utilize the skills and knowledge from the 5 day CSA Exam Prep course to perform the hands-on roof top installation and commissioning of a 3-5 kilowatt (Kw) grid-tie photovoltaic (PV) system using the increasingly popular micro-inverter. Safety topics will be covered including the necessary field level hazard assessment and the use of protective equipment such as fall arrest harness and ladders.

Slave Lake | 9:00 am - 6:00 pm | Oct 13, 14, 15, 2017
Tuition \$999 + GST

Battery Based Installation

Pre-requisite: 5 day CSA Exam Preparation course

You will utilize the skills and knowledge from the 5 day CSA Exam Prep course to perform the hands-on installation and commission of a 10-15 Kw ground mounted PV system including battery charging systems and the inverter system. Safety topics will be covered including safe battery handling and maintenance.

Slave Lake | 9:00 am - 6:00 pm
October 27, 28, 29, 2017
Tuition \$999 + GST

 **Design
& Model**

This course will develop the skills needed to design and model solar electric systems for both residential and commercial installations. Using RETScreen and System Advisor Model software, the student will be able to construct feasibility reports and showcase performance of proposed systems and installations.

NLC LIVE Online
7:00 pm - 9:00 pm | Feb 6 - Mar 1, 2018
(Tue & Thu)
Tuition \$499 + GST | Materials \$40 + GST

 **Canadian Electrical Code for Renewable
Energy Systems**

This course will be exploring Section 64 & 84 of the Canadian Electrical Code 2015 codebook to allow electricians to safely install the wide variety of renewable energy systems currently on the market. There will be an overview of all the systems and an emphasis on solar PV installations.

NLC LIVE Online | Coming Spring 2018

Master Electrician

Pre-requisite: Journeyman Electrician (or Red Seal)

This course will prepare you to write the Alberta Master Electrician's examination.

NLC LIVE Online | Coming Spring 2018

PHOTOVOLTAIC (PV) CERTIFICATE SERIES
PV PRO CERTIFICATE | PV INSTALLATION PRO | PV PRO BUSINESS | PV MASTER

	PV Pro	PV Installation Pro	PV Business Pro	PV Master
Introduction to Renewable Energy Sources	√	√	√	√
Canadian Standards Association (CSA) Photovoltaic (PV) Exam Preparation	√	√	√	√
Grid-Tie System OR Battery Based Installation		√	√	√
Design & Model			√	√
Canadian Electrical Code for Renewable Energy Systems			√	
Master Electrician				√

CHOOSE FROM INDIVIDUAL COURSES OR TAKE A FULL CERTIFICATE!



1201 Main Street. SE, Slave Lake, AB T0G 2A3
Toll Free: 1.866.652.3456 Ext. 8623
Direct 780.849.8623 Fax: 780.849.8704
Office Hours: Mon. to Fri. 8:15 am - 4:30 pm

QUESTIONS?
1.866.652.3456 Ext. 8623
work@northernlakescollege.ca

REGISTER ONLINE TODAY!
www.northernlakescollege.ca