



Harding Instruments will be holding a MicroComm DXL a hybrid (online and in-person) training course.

Online attendees:

Online attendees can remotely attend using Microsoft Teams which attendees can view either with the Microsoft Teams app or with a web login.

A camera is not required, but a microphone is recommended for the attendees to ask questions although the chat can also be used to ask questions.

The course is at no charge.

In-person attendees:

In-person attendees will attend at our factory at 9564 Yellowhead Trail NW, Edmonton AB T5G 0W4.

The course is at no charge, although attendees will need to provide their own transportation and accommodations.

Information on local travel and accommodations will be provided in a follow up email if you have requested in-person attendance.

Here is some information on the course and location.

Note all times are Mountain Daylight Time (MDT)

Please note that the training program is slightly revised over previous sessions.

The same course material is presented but is broken into modules with defined starting times so that attendees can attend just the portions relevant to their scope of work, but it is strongly recommended that at least one individual in each qualified company attend the complete session for a thorough understanding of the system.

Completion of the first module corresponds to the previous "Product Training Certificate".

Completion of all modules corresponds to the previous "Technical Training Certificate".

A "Specialist Training Certificate" with qualifications in the module(s) attended will be awarded to individuals who only attend some of the modules.

Please let us know using the "reply all" option if you are interested with how many may be attending and whether you would like to attend in-person or online.

Also once it is known, please specify names and email addresses for those attending, along with which module(s) they plan to attend so that we can send them teams invites.

If you wish to have the optional host interfacing portion please also indicate that when replying.

Module 1: Product overview and system design

Day 1 morning 8:00AM start



Target audience: Specifiers, Estimators, Project Engineers, Configuration technicians/programmers, Installers, Service Technicians

This will be a live Powerpoint presentation with some video shots of the DXL equipment shown. Online attendees only require a PC or tablet to join the Teams session.

Module 2: Wiring

Day 1 afternoon 1:00PM start

Target audience: Project Engineers, Installers, Service Technicians

This will be a live Powerpoint presentation with some video shots of the DXL equipment. Online attendees only require a PC or tablet to join the Teams session.

Module 3: Configuration Software

Day 2 morning, 8:00AM start

Target audience: Configuration technicians/programmers, Installers

This will be an interactive session with the instructor going through an example configuration with attendees being able to follow along with their own locally installed software.

Online and in-person Attendees should have a PC computer with the DXL Administrator software pre-loaded.

A link to a tutorial video on how to install the software and verify operation will be emailed to the attendees for this module. Attendees should install the software and verify operation of the software and firewall parameters before the session.

Module 4: Installation, Diagnostics, and Maintenance

Day 2 afternoon, 1:00PM start

Target audience: Installers and Service Technicians

This will be a live video streaming session with the instructor showing how to install, troubleshoot, and maintain the MicroComm DXL system.

For online attendees, if you have some DXL head end equipment in your shop and attended Module 3, this may be used to follow through with uploading the configuration created in that module and using the troubleshooting and diagnostics functions of the system.

However, if equipment is not available the instructor will be demonstrating this during the training session.

In-person attendees will have demonstration systems provided and can have hands-on experience with this equipment for configuration and troubleshooting.

Module 5: Host Interface Programming (Optional, only upon demand)

Day 3 morning, 8:00 AM start

Target audience: PLC and Touchscreen Programmers

This will be a live video streaming session with the instructor showing the host interfacing capabilities of the system.

This will build on the configuration started in modules 3 and 4.



The first part of the host interface programming will outline the basic host operation and text commands.

The second part of the host interface programming will show an example touchscreen using the "Intouch" Human Machine Interface (HMI) software using Modbus TCP/IP.

While the attendees can optionally follow the instructor if they have their own copy of InTouch, due to time limitations, no interactive assistance can be provided during the session.

Training Session Information:

The morning modules will start at 8:00 AM and end once the content for the module is complete, which will be at or before 12:00 noon.

The afternoon modules will start at 1:00 PM and end once the content for the module is complete, which will be at or before 5:00 PM.

While the modules may end early, the fixed start times of the next module will allow attendees to drop in on the module(s) they need without the concern of missing content if the previous module ended early or late.

Course materials are on our downloads server in the training directory

<https://harding-tech.com/downloads.html>

The course is at no charge.

Below is an example outline of the Harding Instruments MicroComm DXL Training Course. The standard course is two days long and covers the theory of the system and outline of the networks used, installation and wiring, configuration programming, troubleshooting, and maintenance of the system.

The optional third half day covers how to interface to the system using touchscreen programming.

A rough outline of the content of the course is as follows.

Module 1 - Product Overview and System Design

- Harding Instruments Overview
- MicroComm Product Line Overview
- MicroComm System Features
- DXL System and Components
- MicroComm Devices

Module 2 - Wiring

- System Planning
- System Connections & Networks Overview
 - System Data/Control Network (Ethernet)
 - Exchange Data/Control Network (Lonworks)
 - Digital Audio Trunk Network (CEPT E1)
- Field Devices
- DXL System Wiring
 - Data / Audio Networks
 - Field Devices
- MicroComm Devices
 - Master Stations
 - Intercom Stations

Module 3 - Configuration Software

- DXL Administrator software Overview
- Configuration

Module 4 - Installation, Diagnostics, and Maintenance

- DXL Administrator Software
 - File Manager
- DCC Front Panel
 - Installation
 - Troubleshooting
- Logging
- Regular Preventative Maintenance

Module 5 - Host Interfacing (Optional)

- Host interfacing basics
- Text Interface and basic commands
- PLC Interface basics
 - Example touchscreen host machine interface (HMI) using InTouch



Registration Process

Please send an email to Training@Harding.ca including the following information for each attendee (state if attending in person or virtually):

Full name:

Company Name:

Email:

Contact Phone Number:

In Person or Virtual session: