

Session Options	Descriptions	Instructors	Bios
<b>Hydraulics 101</b>	This session will review hydraulics-related workplace safety considerations, basic principles and terminology, hydraulic systems, and components (reservoir, pump, actuator/cylinder/ram, motor, gauge and filter). The session will also go over common hydraulics-related duties performed by lift mechanics from checking fluid levels, monitoring system pressures, and assisting with maintenance and component changes.	Doug Tofflemoyer	Doug is the Director of Ski Lift Services at Bretton Woods since 2007
<b>Hydraulics 102</b>	Building in concepts in Hydraulics 101, this session will also cover the functionality and basic principles of the brake controller and the brakes themselves.	Leitner-Poma	Tim Brosnan is Eastern General Manager at Leitner-Poma; Samuel "Ian" Pratt, Leitner-Poma Technician.
<b>Drive Tuning</b>	After a basic review of lift motors in use on the mountain, this session will take a look at the programming that can keep them running when trouble strikes.	Leighton & Tom Bates	Leighton is an AC & DC Motors and Drives Specialist & President at NH Electric Motors, Inc. where he has worked since 2001.
<b>Speed Feedback</b>	This program takes a brief dive into tachs, encoders, and pulse counters – the critical components responsible for over-speed and roll back detection.	Leighton & Tom Bates	Tom is the Sr. Field Service Engineer of NH Electric Motors, Inc., which he purchased in 1974.
<b>Intro PLC 1 + 2</b>	This session will provide students with an understanding of Programmable Logic Controls and provide a demonstration of how they work. Participants will learn the following concepts: what a PLC system is (functional definition) and includes (processor, I/O, remote devices); PLC programming (software and communication for programming); Communications Networks (Ethernet, proprietary networks); Indicators (processor, I/O, remote devices); and Troubleshooting basics.	Chris Bowen	Chris is the managing partner at Production Line Controls with 31 years of experience specializing in system troubleshooting and outdated control updates.
<b>Intermediate PLC, Print Reading 1 + 2</b>	This session will build on the Intro PLC 1 + 2 topics and cover more Intermediate PLC concepts, plus delve into basic print reading.	Chris Bowen	Chris is also an Adjunct Professor in the Electrical Technologies program at Manchester Community College since 2016.
<b>Ski Lift Troubleshooting - Part 1</b>	Part 1 of this ski lift troubleshooting course introduces foundational approaches to diagnosing both mechanical and electrical issues.	Andy Pierce	Owner/Operator of AP Electrical Services since 2007 which provides support for electrical, hydraulic and electro-mechanical systems on ropeways.
<b>Ski Lift Troubleshooting - Part 2</b>	Troubleshooting Part 2 emphasizes real-world scenarios, guiding participants through practical problems and effective, experience-based solutions.	Andy Pierce	Previously, Andy worked as an electrical service technician for Doppelmayr for 18 years.