

Mechatronics Headquarters WORKSHOP

Mechatronics Headquarters Workshop – Full-Day Sessions Starting Feb. 24

If your team isn't improving its motion expertise right now, you're already falling behind.

Across Ontario, manufacturers are automating faster than ever, and the companies gaining the most ground are the ones who truly understand how to size, configure, and deploy modern servo motion properly. Undersized motors, misaligned load calculations, poorly tuned drives, and outdated architectures are costing manufacturers real money every single day—in downtime, scrap, slow changeovers, and energy waste. The Mechatronics Headquarters Workshop was built specifically to address these gaps with practical, hands-on Rockwell Automation training that engineers can apply immediately.

Rockwell Automation Motion has become a defining performance differentiator in Ontario's Food & Beverage plants, automotive suppliers, warehouse automation OEMs, and general machine builders. When you understand how torque, inertia, gearing ratios, and real-world load profiles interact, you build equipment that is faster, smoother, more reliable, and far easier to support. Customers who properly apply integrated motion don't just get ahead—they stay ahead—because their machines can run higher throughput with fewer mechanical failures, reduced commissioning effort, and dramatically improved diagnostics. In a competitive province like ours, these aren't small advantages. They're the difference between winning projects and losing them.

To meet the growing demand for skilled motion expertise, we are hosting **full-day workshops** of Mechatronics Headquarters on the following dates:

Tuesday, Feb. 24 • Thursday, Feb. 26 • Tuesday, March 3 • Thursday, March 5 • Tuesday, March 10
Each day = 8:30 am to 4:30 pm. Lunch provided!

Morning Session: RA Foundations — Mastering the Principles That Matter

Our day begins with **Physics for Motion**, breaking down torque curves, inertia matching, reflected loads, friction, acceleration profiles, and how each factor influences real-world machine performance. You'll learn the exact process Rockwell engineers use to **size motors and servo drives correctly**—ensuring you avoid the costly trap of oversizing “just to be safe.”

We'll cover:

- How to calculate load requirements and select the right Kinetix® hardware
- How inertia ratios affect performance, stability, and tuning
- How to choose feedback devices and cabling that support high-precision applications
- Installation practices that prevent electrical noise, vibration issues, and premature failure

The session continues with “**5 Minutes to Motion**”, demonstrating how Rockwell's Integrated Motion dramatically simplifies axis creation, commissioning, and tuning. You'll see the **Tuning Rig Demo** in action, showcasing powerful *tuningless* features that minimize manual trial-and-error—and cut hours out of startup.

Afternoon Session: Hands-On Labs — Real Hardware, Real Skills

Through guided labs, participants will work directly with:

- **ArmorKinetix Distributed Servo Drives & Motors** for decentralized On-Machine designs
- **Kinetix 5700 Servo Drives**, the flagship platform for high-speed, multi-axis systems
- **GuardLogix High Performance**, combining motion and safety in one unified control environment

These labs are designed to build confidence: wiring, configuring, controlling axes, running motion profiles, applying safety functions, and troubleshooting common issues.

This workshop is ideal for two key groups of attendees:

First, it's perfect for customers who *aren't currently working in motion* but want to build enough foundational knowledge to confidently enter the field—engineers, technicians, designers, or maintenance teams who know they need to upgrade their skill set as Ontario manufacturing becomes more motion-driven.

Second, it's extremely valuable for organizations that *do* work with motion today but have new employees who need to get up to speed quickly. Whether you're onboarding junior engineers, cross-training staff, or expanding your team's capabilities, this session provides the essential fundamentals and hands-on experience needed to become productive with Rockwell Automation motion technologies fast!

Don't delay... REGISTER NOW!