

Robotic Fundamentals and Applications

Two-day Course | Buffalo, NY



The **Robotic Fundamentals and Applications** course offers an essential introduction to robotic technology, applications, and operations. Structured as a practical overview for technical professionals who want to broaden their understanding of robotic systems, the course covers basic principles and provides hands-on experience on both industrial and collaborative platforms.

Taught at EWI's Buffalo Manufacturing Works, Robotic Fundamentals and Applications offers 15 professional development hours upon completion. If you are interested, contact Susan Witt, Manager of Industrial Training, at switt@ewi.org or 716.710.5538.



Robotic Fundamentals and Applications Course Two-day Schedule

Day 1:

- Introduction
- Applications for industrial and collaborative robots
- ROI for automation projects
- Basic EOT (end of arm tooling)
- Hands-on activities
- Robot motion
- Programming fundamentals
 - Basic movements
 - Pick-and-place

Day 2:

- Robot Safety
- Lock out tag out
- RIA standards
- Safety components
- Programming
- Programming controls
 - Loops
 - Waits and delays
 - If statements
- Palletizing
- Continuous path