



# Member Program

## Using Collaborative Robots to Tend CNC Machine Cells

**Date:** Thursday, June 21, 2018 • 2:00 – 5:00 p.m. (Please note different program time)

- Snacks will be available.
- Universal Robot models UR5 and UR3 will be available for review and for hands-on programming.

**Location:** Hales Machine Tool // 2730 Niagara Lane // Plymouth, MN 55447

If you have ever wondered how a collaborative robot works directly with a machine cell – come find out at a 30-minute training session that will show how Universal Robot model UR10 automatically loads and unloads bar stock with a CNC machine. The training will consist of:

- Differences between a collaborative robot and a traditional robot.
- What applications are suitable for a collaborative robot and when to use traditional robots.
- How the Universal Robot is wired to the CNC.
- The programming changes needed in the CNC to interface with the Universal Robot.
- Why automatic clamping and automatic doors are important variables to consider when using collaborative robots.
- Project variables to consider when implementing a collaborative robot to tend a CNC.
- General pricing for installations and return on investment.

*There will be three technical sessions on the half hour at 2:30 - 3:00 p.m.; 3:30 - 4:00 p.m.; and 4:30 - 5:00 p.m., and the time in-between can be used to ask questions at any of the robot stations.*

**Reservation deadline for this event is: Sunday, June 17, 2018.**

**\*Cancellation Policy:**

All cancellation requests must be made no less than 72 business hours in advance of the meeting.

Cancellations made less than 72 business hours in advance, including no-shows, will be billed for the meeting if not pre-paid.

**Register online at [www.mpma.com](http://www.mpma.com) or by filling out the form below and faxing/emailing to MPMA.**

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MPMA Member - \$25 x \_\_\_\_\_

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Total Due: \$ \_\_\_\_\_

*It is the policy of MPMA to add a \$25 late fee to registrations made after the noted deadlines.*

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