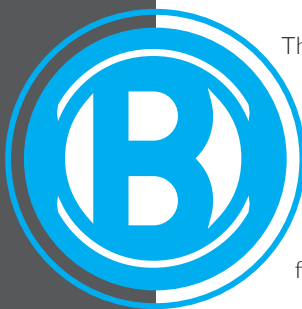


2020 CONTROL OPERATION TRAINING

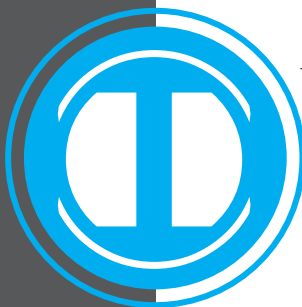


BASIC CONTROL



This 2-day class is designed with the NEW CNC user and operator in mind. This training class has a suggested prerequisite of the online Haas Operator Certificate Training at Learn.HaasCNC.com. Safe machine practices and control operation are the backbone of this class. By the end of this class, the student will have a solid grasp of Haas control fundamentals.

INTERMEDIATE CONTROL



This 2-day class is designed for the experienced Haas Operator. Using advanced features of the control, basic setup, including 4th Axis, is covered. The Haas CNC user will gain thorough understanding of Tool - and Work Offsets, including utilizing the Renishaw Probe within a program.

ADVANCED CONTROL




The 2-day Advanced Control class takes the intermediate Haas Control User and puts him/her on track to master the Haas Control. The course covers in-process inspection, automated tool and work offsets, utilization of Haas Tool Management and 5-Axis setup.

Each 2-day class:
\$695 per student

(714) 517-8080
applications@mtscnc.com

www.mtscnc.com

  **Haas**
F1 Team
OFFICIAL MACHINE TOOL
FACTORY OUTLET
A DIVISION OF MACHINING TIME SAVERS, INC.

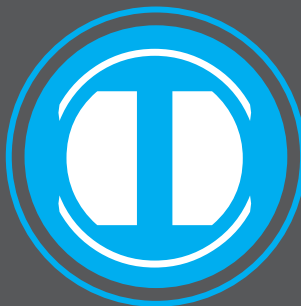
Anaheim | California

2020 CONTROL OPERATION COURSE OUTLINE

BASIC CONTROL



INTERMEDIATE CONTROL



ADVANCED CONTROL



(714) 517-8080
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Day one:

- Discover the Haas control
- Understanding Offsets
- Edge finding and indicating
- G-code review

Day two:

- VPS conversational programming
- Haas control settings
- M-code review
- Lab demonstration and review
- Maintenance

Day one:

- Probing Offsets
- Basic Measurement Outputs
- Probing macros
- Finding center of rotation & MRZP

Day two:

- Machine & Coolant maintenance
- Chuck removal & replacement
- M-code & G code review
- Lab demonstration and review

Day one:

- Introduction to Renishaw probe system
- Probing routines for in-process inspection
- Macro variables used for probing
- Haas automated tool management page
- Lab demonstration and review

Day two:

- Introduction to DWO/TCPC
- Introduction to MRZP
- Correct Trunnion installation procedure
- Lab demonstration of trunnion install and MRZP procedure

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