



TruMatic 6000 Operator



COURSE DESCRIPTION

The TruMatic 6000 Operator course provides students with essential punching/laser operation knowledge and skills to successfully run the machine and produce satisfactory punched and laser cut parts. Students will develop a working knowledge of punching/laser machines by learning machine hardware, fundamental operations, NC code, and working with punching tools and laser cutting head. Upon completion of this course, students will possess the skills to operate TRUMPF punch/laser machines in a safe manner, maximize punching/laser cutting performance and material processing capabilities, manage tools, and carry out basic preventive maintenance tasks.

TARGET AUDIENCE

Machine Operators or Maintenance Personnel

PREREQUISITES

Basic math skills, basic PC skills, and the ability to read precision measuring devices.

COURSE DURATION

5 days (on-site training)

OBJECTIVES

- Demonstrate safe work practices and operate the TruMatic 6000 machine in a safe manner.
- Identify basic machine capabilities and working ranges.
- Perform setup/maintenance of tooling; troubleshooting.
- Apply correct procedures for turning on and referencing the machine.
- Apply correct procedures for downloading and executing part programs and managing files; recovering/efficiency.
- Troubleshoot machine faults.
- Perform basic preventive maintenance.
- Customize machine database.



Training Department
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COURSE OUTLINE

- Punch and laser safety and safe work practices
- Overview of machine capabilities and working ranges
- Introduction to tooling
 - Tooling specifications
 - Assembling multi-tools
 - Performing correct setup and maintenance procedures
- Die clearances and their influence on machine operation
- Standard formulas
- TRUMPF punch and laser principles and applications
- Introduction to punch/laser machine controls and components
- Managing files
- Laser settings
- Basic machine operations
 - Following correct start-up procedures
 - Following correct referencing procedures
 - Following correct procedures for downloading and executing part programs
- Introduction to NC code basics
 - NC code and its impact on machine operation
 - Editing NC code and part programming
 - Recovering from program interruption
 - Saving existing programs to eliminate scrap
- Customizing machine databases
- Customizing laser tech tables
- Troubleshooting and correcting machine faults
- Basic maintenance points and procedures
 - Lubrication points
 - Mechanical components
 - Pneumatic components
 - Electrical components
 - Hydraulic components

CUSTOMER SERVICES

COURSE OUTLINE