



Manufacturing Machine Operator Occupational Skills Award

IACE1.MMO
OSA1.MMO

Texas Southmost College Workforce Training
and Continuing Education

The Manufacturing Machine Operator program prepares students for careers in modern, high-tech manufacturing environments, specializing in Computer Numerical Control (CNC) machining and additive manufacturing (3D printing). This hands-on curriculum is designed to align with industry standards and combines traditional manufacturing principles with advanced digital technologies. Upon successful completion of the program, students will earn an Occupational Skills Award and a HAAS Certification.



COURSES	Hours
MCHN 1026 Introduction to Computer-Aided Manufacturing (CAM)	64
MCHN 2034 Operations of Machining Centers	80
Total Contact Hours for Occupational Skills Award	144

Learning Outcomes:

Students will gain practical experience:

- Using Computer-Aided Manufacturing software to create part programs
- Transferring programs to the machine control unit
- Machining the parts.
- Setting up and operating CNC machining centers
- Setting machine and tool offsets for machining operations and editing the program as required

Award

TSC Certificate of Completion
Occupational Skills Award
HAAS Certification

* Must successfully complete all courses with a Satisfactory (S) for graduation.