

Precision Metal Engineering and Manufacturing Engineering

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Course Description

Precision Metal Engineering and Manufacturing Engineering are a courses designed to familiarize students with the knowledge, skills, and career opportunities in the manufacturing industry. Emphasis is placed on technical and practical applications of manual mills, manual lathe, CNC mills, CNC lathes, CNC plasma cutter, 3D printing, laser engraving, robotics and automation, saws and a variety of tools and processes. Students will also gain the skills to read and produce shop drawings, structural drawings, blueprints, manufacture production prototypes, and design and program a manufacturing robotic automation line.

Certifications and Licensing

OSHA (Each additional re-test will cost \$20.00)	No Cost
Solidworks CSWA Certification, National Institute for Metalworking Skills Credentials, and	TBD
Seimens PLC Certification	

Materials and Fees

HCTC polo shirt (Required by the first day of school)	\$20.00
2 Pairs of tan khaki pants (provided by student); (Can be purchased at Walmart)	
2 pairs of short sleeve tan khaki shirts and (provided by student); (Can be purchased at Walmart)	
Leather work boots (provided by student); (Can be purchased at Walmart)	
2 Pairs of clear safety glasses (provided by student)	
Online textbook fee (Required by the first day of school)	\$75.00
Optional Fees- subject to change	
Student organization dues (Skills USA Membership)	\$16.00
Skills USA Competition Fee	\$31.00
TSA Membership	\$17.00
TSA Competition Fee	TBD
Class T-Shirt	\$10.00

All fees are required to be paid in full by the first day of school. Payment plans are available.

Polo shirt and khaki pants are required dress for field trips, special events, and peer professional day.

Uniforms, work boots and safety glasses are required on the first day of school.

Transportation

EMS ISD provides daily transportation between HCTC and the home campuses. Students may drive personal vehicles to and from HCTC with a signed parent/guardian transportation form and a proof of automobile insurance on file at HCTC. HCTC will issue no-cost parking passes after receiving both items. Students are not allowed to transport other students during the school day.

It is the policy of the Eagle Mountain-Saginaw ISD not to discriminate on the basis of race, color, national origin, gender, or handicap in its Career and Technology Education programs, services, or activities as required by Title VI of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1967, as amended. Eagle Mountain-Saginaw ISD will take steps to assure the lack of English language skills will not be a barrier to admission and participation in all educational and Career and Technology Education programs.

Es norma de Eagle Mountain-Saginaw Independent School District no discriminar por motivos de raza, color, origen national, sexo o impedimento, en sus programas, servicios o activades vocacionales, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda: el Título IX de las Enmiendas en la Educación, de 1972, y la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda. Eagle Mountain-Saginaw Independent School District tomará las medidas necessarias para asegurar que la falta de habilidad en el uso de la lengua inglés no sea un obstaculo para la adminisión y participación en todos los programas educativos y vocacionales.