



Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

REQUIRED HIGH SCHOOL CREDITS	English (4 cr), Social Studies (3 cr), Math (3 cr), Science (3 cr), Health (.5 cr) and Fitness (1.5 cr), Visual and Performing Arts (1 cr), Career and Technical Education (CTE) (1cr), and Personal Pathway Requirements (PPR) (3 cr), Electives (4 cr)				
PERSONAL PATHWAY OPTIONS⁺	AP Environmental Science, AP Computer Science, Calculus, Career Choices, Chemistry, Computer Hardware & Networking – NMSC, Digipen Computer Science AP – NMSC, Construction Trades – NMSC, Financial Literacy, Green Technology, Home Shop, Introduction to Computer Science, Manufacturing Design, Office Management, Physics, Pre-Calculus, Project Management, Robotics, World Language*				
EDUCATION OPTIONS	TECHNICAL CERTIFICATION <i>Instruction provided through certified training centers</i>	APPRENTICESHIP OPPORTUNITIES <i>To learn more about Apprenticeship, visit Apprenticeship WA website</i>	2-YR OR TECHNICAL DEGREE <i>Find specific colleges at SBCTC</i>	4 –YR DEGREE <i>Find specific colleges at Student Achievement Council</i>	
SAMPLES	<ul style="list-style-type: none"> • Appliance Technology • Carpentry • Construction Trades • Cranes & Riggers • Dental Laboratory Technology • Electrician • Hazmat • Heavy Equipment Maintenance • Machine Tool Technology • Manufacturing Technology • Mechanic Technologies • Transportation Clerk • Vehicle & Equipment Operators 	<ul style="list-style-type: none"> • Boilermakers • Carpenters • Cement Masons • Electrical Workers • Glaziers • Ironworkers • Laborers • Millwrights • Operating Engineers • Painters • Plumbers • Roofers • Sheet Metal Workers 	<ul style="list-style-type: none"> • Comp Programming • Construction Engineer/Tech • Data Processing • Dental Laboratory Technology • Electro-Mechanic Tech • Environmental Engineering • Industrial Technologies • Logistics and Materials Management • Machinist • Manufacturing Technology • Mechanic/Repair Technologies • Orthotics/Prosthetics • Vehicle/Equipment Operators 	<ul style="list-style-type: none"> • Business Admin and Mgmt • Millwork/Millwright • Carpentry • Civil Engineering • Construction Engineering • Construction Technician • CTE Secondary Teacher • Industrial Management • Environmental Engineering • Industrial Production Technologies • Manufacturing Technology • Mechanical Engineering • Orthotics/Prosthetics 	
CAREER OPTIONS	LITTLE OR NO EDUCATION	SOME EDUCATION	MEDIUM EDUCATION	CONSIDERABLE EDUCATION	EXTENSIVE EDUCATION
SAMPLE RELATED JOBS Career Cruising careerbridge.wa.gov Videos <i>BOLD JOBS ARE IN DEMAND</i>	<ul style="list-style-type: none"> • Cutter and Trimmer • Fabric Presser • Grinding/ Polishing • Machine Feeder • Production Worker/Helper • Sewing Machine Operator • Tire Builder • Vehicles Cleaner 	<ul style="list-style-type: none"> • Caster • Dental Technician • Hazardous Materials Removal Worker • Locksmith • Machine Operator • Photographic Process Worker • Semiconductor Worker • Sheet Metal Worker • Tailor • Welder 	<ul style="list-style-type: none"> • Civil Engineer Tech • Machine Assembler • Gas Plant Operator • Machine Mechanic • Machinist • Mechanical Engineering Tech • Millwright • Stationary Engineer • Tool and Die Maker • Upholsterer 	<ul style="list-style-type: none"> • Industrial Production Manager • Mechanical Engineer • Electronics Engineer • Supervisors/ Managers of Mechanics, Installers, and Repairer 	

*PPR: related courses that lead to a specific post-high school career or educational outcome chosen by the student and based on the student's interests and High School and Beyond Plan and are intended to provide a focus for the student's learning, which may include Career and Technical Education, one of the required Art credits and/or two credits in the same World Language.

*Two consecutive years of the same World Language are needed for entrance into a 4yr University/College and will meet the PPR requirement.