

Cluster Overview:

Jobs in the manufacturing career cluster involve 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.

Pathway Options:

- Production
- Manufacturing & Production Process Development
- Maintenance, Installation and Repair
- Quality Assurance
- Logistics and Inventory Control
- Health, Safety and Environmental Assurance

Occupation Examples:

Assembler, MIG Welder, TIG Welder, Machine Operator, Sheet Metal Worker, Mechanical Engineer, Industrial Engineer, Quality Control Technician, Safety Technician, Safety Engineer, Dispatcher, Production Manager, Purchasing Agent, Logistician

For a complete listing, go to: http://online.onetcenter.org/find/career?c=13&g=Go

MONTANA POSTSECONDARY OPPORTUNITIES

Montana University System Degree and Program Inventory: http://www.homepage.montana.edu/~mus/drginv/ Your Guide to Montana's Certificate and Associate Degree Programs: http://mus.edu/twoyear/YourGuide.html

MSU Two Year Colleges and Programs: City College MSUB—Billings (CC); Great Falls College MSU—Great Falls (GFC); Helena College UM—Helena (HC) Highlands College MT Tech— Butte(HC-Tech); Missoula College UM—Missoula (MC); Gallatin College MSU—Bozeman(GC) Community Colleges:
Dawson Community College
(DCC)
Flathead Valley Community
College (FVCC)
Miles Community College (MCC)

Tribal Colleges: Aaniiih Nakoda College (ANC);Blackfeet Community College(BCC); Chief Dull Knife College (CDKC);Fort Peck Community College (FPCC);Little Big Horn College (LBHC);Stone Child College (SCC);Salish Kootenai College (SKC)

Four Year Colleges/Universities: MSU—Bozeman; MSUB—Billings; MSUN—Havre; MT Tech—Butte; UM— Missoula; UMW—Dillon

HELENA COLLEGE UNIVERSITY OF MONTANA PROGRAMS <u>http://www.umhelena.edu</u>

PROFESSIONAL CERTIFICATE	 Requires diploma or HiSET Industry-recognized certification requires state or national exam Typically non-credit Complete in one year or less 	OSHA 510: Occupational Safety and Health Standards for Construction OSHA 511: Occupational Safety and Health Standards for General Industry OSHA 500 and 501: Trainer courses for OSHA
APPRENTICESHIP	Requires diploma or HiSETMust be at least 18Minimum 2,000 hours of supervised experience	Sheet Metal Apprenticeship with AAS
CERTIFICATE OF APPLIED SCIENCE	 Requires diploma or HiSET 39 credits; including 9 general education credits Complete in one year 	Welding Technology Machine Tool Technology
ASSOCIATE OF APPLIED SCIENCE DEGREE	 Requires diploma or HiSET 69-71 credits; includes 9 general ed credits Complete in two years (if prepared academically in math and English) 	Computer-Aided Manufacturing Industrial Welding and Metal Fabrication Metals Technology
BACCALAUREATE DEGREE	Requires 4-year college prep for admission128 credits (approximately)Complete in four years	Industrial Engineering, Construction Engineering Technology, Technology Education: Montana State University Etc.