

Machinist

DEFINITION

This is journeyman level work in the machinist trade.

An employee of this class sets up and operates precision machines to make, repair or modify machine and equipment parts. Assignments are in the form of oral or written instructions and may be accompanied by sketches, plans, blueprints and worn, broken or sample parts. There is latitude for determining specific work methods and the work is subject to inspection in progress and upon completion. A machinist may be assigned helpers or apprentices as required.

TYPICAL DUTIES

Note: The following duties are only representative of this classification and do not include all functions performed. Individual positions may not perform all duties listed. Positions that may perform some of the duties listed do not necessarily qualify for placement into this classification.

Shapes metal into parts for machines, trucks, graders, loaders, dozers, etc. utilizing various precision machines.

Operates lathe for turning, shaping and finishing shafts, axles, pins, pulleys and gear blanks; for forming flat end surfaces, collars, shoulders and cylindrical surfaces; for cutting screw threads; for drilling, reaming, tapping and burling a variety of workpieces.

Operates milling machine to produce flat, curved and irregular surfaces and to form slots, grooves, keyways, dovetails, splines, flutes, cams and gears.

Operates shaper to form plane surfaces, shoulders, tapers and keyways on workpiece.

Operates drill press to form holes, arbor press to fit or remove bushings or to broach keyways, grinder to sharpen tools; operates band saw and variety of hand tools.

May assemble or dismantle equipment such as hoists, hydraulic cylinders, ski tow rive; may inspect, repair and modify equipment in the field.

Performs other related duties as required.

KNOWLEDGE, ABILITIES AND SKILLS

Considerable knowledge of metal properties, machining methods and shop mathematics; numerical ability to compute dimensions; tapers, cutting angles, tool settings, feed rates and machine speeds and ability to understand and carry out oral and written instructions.

Knowledge of the occupational hazards and safety precautions of the trade; adaptability to working around moving mechanical parts and noisy machinery.

Spatial perception to visualize finished workpiece from drawings; form perception to detect surface defects on finished workpieces such as burrs, nicks or scratches.

Near visual acuity and depth perception to set up and operate machines and to read graduations on precision measuring instruments.

Manual dexterity to handle machine controls, tools and parts and to manipulate precision measuring instruments.

Sufficient strength to perform work requiring the carrying, lifting and positioning of workpieces, or tools weighing up to fifty pounds.

TRAINING AND EXPERIENCE REQUIREMENTS

Job Level

Certified Alberta Journeyman in the trade of Machinist. Possession of a valid Alberta Class 5 Motor Vehicle Operator's License.

** This is a class specification and not an individualized job description. A class specification represents and defines the general character, scope of duties and responsibilities of all positions within a specific job classification. It is not intended to describe nor does it necessarily list the essential job functions for a specific position in a classification. Positions may perform some of the duties listed above but this does not necessarily qualify for placement into this classification.*

Salary Plan	<u>10M</u>	<u>10A</u>	<u>10B</u>	<u>10C</u>
Job Code	0143			
Last Updated:	1991-10			
Previous Updates:	1979-01			
Originated:	1974-11			