

**New York State Department of Civil Service**  
Division of Classification & Compensation

Classification Standard

**Occ. Code 7120146**

**Trades Specialist (CNC Machinist), Grade 12**

Brief Description of Class

A Trades Specialist (CNC Machinist) performs journey-level machine shop work and may supervise others in operating and maintaining Computer Numerical Controlled (CNC) equipment operated by Computer Aided Manufacturing (CAM) technology and software to machine, create, and fabricate parts and tools to digitally precise measurements and tolerances.

Distinguishing Characteristics

*Trades Specialist (CNC Machinist):* non-competitive; plans and lays out work and determines the proper tools and materials and the sequence of cutting and finishing operations required. Incumbents set up and operate a variety of specialized tools often requiring work to close tolerances, in the manufacture and repair of metal parts, mechanisms, tools, or machines.

Illustrative Tasks

From specifications or descriptions of part to be produced, plans tools and materials required, and the sequence of operations to be performed, including the sequence of events to be programmed into the CAM software for the applicable machines.

Selects proper materials for the job, as per the specifications and tolerances of the item to be produced and lays out stock for machining by using the CAM software to measure and mark dimensions and reference points.

When operating CNC machines, ensures that the program in the CAM software is designed to select and install proper cutting tools and sets machine controls that determine sequence of operations, the speed at which the tool or work moves, and the depth of the cut.

Machines parts to specifications and tolerances, and checks accuracy of the work using precision measuring devices such as micrometers and gauges.

Writes programs for the CNC mill to machine parts using Mastercam and FANUC programmer; writes G code-based programs using Sheetcam and Mastercam.

Utilizes a plasma cutter to cut parts precisely and accurately to required dimensions.

Machines critical inventory parts for the operation of lock structures.

Performs quality control tests and measurements of machines parts.

Performs required CNC machine maintenance and tool upkeep.

Establishes and maintains a part library of required critical inventory parts or pieces.

### Minimum Qualifications

Non-competitive: four years of full-time experience in the machinist trade utilizing Computer Aided Manufacturing (CAM) software and technology, under a skilled tradesperson, which would provide training equivalent to that given in a training, apprenticeship, or equivalent program; or an equivalent combination of experience and training gained by completion of technical courses in the machinist trade at a school, institute, or branch of the Armed Services.

When required to operate motor vehicles, candidates must possess a valid New York State driver's license appropriate for the type of vehicle to be operated.

**Note:** Classification Standards illustrate the nature, extent and scope of duties and responsibilities of the classes they describe. Standards cannot and do not include all of the work that might be appropriately performed by a class. The minimum qualifications above are those which were required for appointment at the time the Classification Standard was written. Please contact the Division of Staffing Services for current information on minimum qualification requirements for appointment or examination.

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