

# Machinist

## Level 1 Examination Information

The **Machinist** trade level examinations are developed by the Apprenticeship and Trade Certification Commission in co-operation with a committee of worker and employer representatives selected from industry. The pass mark is 70%. Apprentices may challenge this exam only once. Examination content is based on the expectations and standards for Saskatchewan apprentices as follows:

Subject	Number of Questions	Percentage
Benchwork/Measurement	23	22%
Technical Drawing and Blueprint Reading	9	9%
Drills and Drilling Operations	15	14%
Cutoff Saws, Material ID, Pedestal Grinders, Cutting Fluids	10	10%
Lathes	38	35%
Milling	10	10%
<b>Total</b>	<b>105</b>	<b>100%</b>

## Suggested resources when preparing for the examination

To assist you, a list of reference textbooks is provided below. Note that ISBN numbers are subject to change. Please consult with your supplier to access their most current version of the text you are acquiring. It is not necessary to use these specific textbooks; you may find others which will be equally beneficial. You are encouraged to seek additional reference materials in all test areas.

- Advanced Machine Tool Practice TOOL 484 SKU 20124724
- Advanced Machine Tool Theory TOOL 482 SKU 20124748
- Applied Mathematics Machinist Course Manual MATH 104 SKU 20006785
- Bevel Gears 150302C VER 21.0 SKU 20136727
- Boring Mills 150402A VER 21.0 NAIT/SAIT SKU 20056490
- CNC 2 Axis MACH 386 SKU 20096069
- CNC Machining 3 Axis MACH 483 SKU 20116347
- Computer Numerical Control MACH 100 SKU 20069896
- Cutting Tool Technology TOOL 381 SKU 20106874
- Dividing Head and Indexing 150203c VER 21.0 NAIT/SAIT SKU 20186913
- Gear Manufacturing Methods 150302e VER 21.0 SKU 20055738
- Grinding Theory/Grinding Practical MACH 290 291 SKU 20112141
- Inserts and Tool Holders 150202d VER 21.0 NAIT/SAIT SKU 20270124
- Lathe Theory/Lathe Practical MACH 292 293 SKU 20112189
- Machine Tools TOOL 384 (Practical) SKU 20106911
- Material Selection and Heat Treatment MATE 481 SKU 20114145
- Materials and Heat Treatment MACH 285 SKU 20112165
- Mathematics MATH 386 SKU 20024024
- Metal Specifications and Testing 150210c VER 21.0 SKU 20058616
- Milling Cutters 150202B VER 21.0 SKU 20186852
- Milling Operations 150203b VER 21.0 SKU 20186890
- Milling Machines 150203a VER 21 NAIT/SAIT SKU 20186838
- Milling Theory MACH 294 SKU 20124700
- Multi-start and Worm Threading 150302F VER 21.0 SKU 20022532
- Power Transmission MACH 383 SKU 20094041
- Splines VER 5.1 150302J VER 21.0 SKU 20022341
- Spur Gears 150302B VER 21.0 NAIT/SAIT SKU 20264345
- Threading 150203D VER 21.0 NAIT/SAIT SKU 20022327
- Tool Theory TOOL 383 SKU 20106898

Individual Learning Modules (ILMs) for the Machinist trade may be ordered through the Saskatchewan Polytechnic Bookstore Call Centre: 1-866-569-8398 or through [www.tradesecrets.org/](http://www.tradesecrets.org/) under Machinist.

\*Unless otherwise noted, books listed here are available through the Saskatchewan Polytechnic Bookstore Call Centre: 1-866-569-8398.

NOTE: Textbooks **are not** usually available from libraries. When texts are being purchased, candidates should allow several weeks for delivery and several weeks for studying.

Absolutely no cell phones, communication devices or PDAs are allowed in the examination facility. You will be required to leave immediately if any of these items are found on your person.

**Important information regarding calculators** – please note that due to increasing security issues, candidates are no longer permitted to bring their own calculators to the exam facility. Instead, we will be supplying each candidate with a calculator. Please refer to the “Forms” section of our web page for further information.

Please note that examinations and study information change frequently. The most recent information is available on our web site at [www.saskapprenticeship.ca](http://www.saskapprenticeship.ca)

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This information is subject to change without notice.

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