# RED SEAL STUDY GUIDE MACHINIST YEAR 1

SAMPLE

25 EXAM PREP QUESTIONS WITH ANSWERS


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# INTRODUCTION

## Introducing the Red Seal Study Guide – Machinist.

Ready to dive into the world of Machinist? Meet your ultimate companion – the Red Seal Study Guide for Machinist. This practical booklet is your go-to practice tool to conquer your Machinist exam.

Presented in an easy Q&A format, this guide lets you preview the kinds of questions you'll tackle on the real exam day. Consider it a sneak peek into what's coming your way!

Inside its pages, you'll find a treasure trove of Machinist essentials. It's more than just answering questions – it's about truly grasping the basics of Machinist in a way that sticks. Whether you're starting fresh or aiming to refine your skills, this guide has got you covered.

So, get set to challenge yourself, learn in a breeze, and build up your Machinist expertise. With the Red Seal Study Guide, you're all set to take that significant stride toward becoming a certified Machinist.

Ready to get started? For more information, tips, and resources, head over to www.RedSealStudyGuide.ca
Machinist success starts here – dive in!

# DISCLAIMER

## Study Guide Disclaimer: Important Notice

The Red Seal Study Guide – Machinist is a reference tool meant to enhance your exam preparation. It offers insights into potential question formats. However, it's vital to know that this guide should complement, not replace, official government-issued study materials.

For comprehensive readiness, we recommend using both this guide and official resources provided by relevant authorities. Please note that this guide covers exams across Canadian provinces, but slight content variations might exist.

For your best chance at success, ensure a well-rounded preparation approach that includes official materials.
Good luck on your path to becoming a certified Machinist!

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Let’s craft your future together!

**1. Only one of these applications suits a point-to-point control system**

A: Pick it
B: Grinding profile
C: Drilling
D: Turning Grinding

**2. CNC lathes include embedded coordinate measuring systems. Zero on the coordinate system is called:**

A: Reference point
B: Zero-point work
C: Machine zero point
D: Program zero point

**3. CNC machines rarely run. They are regulated by:**

A: Programs
B: Operator
C: Cam
D: Board-based plug

**4. Which assertion is about block structure?**

A:  Writing the program block
B: Writing rule
C: Electrically controlled
D: CNC machine

**5. Command G00 means**

A: Fast motion
B: Slow motion
C: Medium motion
D: Stationary

See answers on the next page.

**1.** A B **C** D

Note: _____

**2.** A B **C** D

Note: _____

**3.** **A** B C D

Note: _____

**4.** **A** B C D

Note: _____

**5.** **A** B C D

Note: _____

**6. Which machine procedure does not use single-point cutting tools?**

A: Milling
B: Shaping
C: Drilling
D: Shaping

**7. Form tool width should not exceed multiples of the finished part's smallest diameter.**

A: 1.5
B: 3.0
C: 4.0
D: 4.5

**8. Which cutting tool material is the hardest?**

A: Diamond
B: Ceramics
C: Cermets
D: Cemented carbide

**9. A cutting tool used to complete and enlarge a hole is called**

A: Drill
B: Tap
C: Reamer
D: Stator

**10. Which metal does not need coolant when reaming?**

A: Aluminum
B: Cast iron
C: Copper
D: Steel

See answers on the next page.

**6.** (A) B C D

Note: _____

**7.** A (B) C D

Note: _____

**8.** (A) B C D

Note: _____

**9.** A B (C) D

Note: _____

**10.** A (B) C D

Note: _____

**11. Flat chisels for chipping aluminum have an angle of**

A: 35 Degree
B: 55 Degree
C: 60 Degree
D: 70 Degree

**12. A rasp cut file can cut which of the following materials?**

A: Steel
B: Cast iron
C: Wood
D: Bronze

**13. Flat chisels have a body form of**

A: Square
B: Hexagonal
C: Octagonal
D: Chisel used to cut keyways

**14. Grinding wheels are made from which material?**

A: Silicon carbide
B: Granite
C: Sand
D: Calcium carbonate

**15. What size drill will you use for M5 tapping?**

A: 4.5 mm
B: 4.0 mm
C: 3.8 mm
D: 3.5 mm

See answers on the next page.

**11.** (A) B C D

Note: _____

**12.** A B (C) D

Note: _____

**13.** A B (C) D

Note: _____

**14.** (A) B C D

Note: _____

**15.** A (B) C D

Note: _____

**16. Finish a 10 mm hole with a hand reamer. The reaming hole should be.**

A: 9.75 mm
B: 9.50 mm
C: 9.25 mm
D: 9.00 mm

**17. Taper shank drills should be withdrawn from the machine spindle using**

A: Hammer
B: File tangle
C: Punch
D: Drift

**18. Drill chucks are held on machine spindles by**

A: Arbor
B: Drift
C: Draw-in bar
D: Chuck nut

**19. Twist drill material is usually**

A: H.S.S
B: Carbide steel
C: Diamond
D: Cast steel

**20. Positioning the job in the vice for filing is optimal.**

A: At eye level
B: Shoulder level
C: Elbow level
D: Arm-level

See answers on the next page.

**16.** (A) B C D

Note: _____

**17.** A B C (D)

Note: _____

**18.** (A) B C D

Note: _____

**19.** (A) B C D

Note: _____

**20.** A B (C) D

Note: _____

**21. Choose a grinding wheel with the appropriate abrasive for glass grinding. Which abrasive will you use?**

A: Diamond
B: Emery
C: Quartz
D: Silicon carbide

**22. Forging shops use which vice?**

A: Hand vice
B: Vices
C: Bench
D: Leg vice

**23. Cast iron is unforgeable because**

A: Softness
B: Stiffness
C: Toughness
D: Brittleness

**24. Gauges are made of**

A: Cast iron
B: Cast steel
C: Alloy steel
D: Mild steel

**25. Reference gauge precision is**

A: 0.05 mm
B: 0.01 mm
C: 0.001 mm
D: 0.0001 mm

**21.** (A) B C D

Note: _____

**22.** A B C (D)

Note: _____

**23.** A B C (D)

Note: _____

**24.** A B (C) D

Note: _____

**25.** A B (C) D

Note: _____

1). A B C D

2). A B C D

3). A B C D

4). A B C D

5). A B C D

6). A B C D

7). A B C D

8). A B C D

9). A B C D

10). A B C D

11). A B C D

12). A B C D

13). A B C D

14). A B C D

15). A B C D

16). A B C D

17). A B C D

18). A B C D

19). A B C D

20). A B C D

21). A B C D

22). A B C D

23). A B C D

24). A B C D

25). A B C D


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