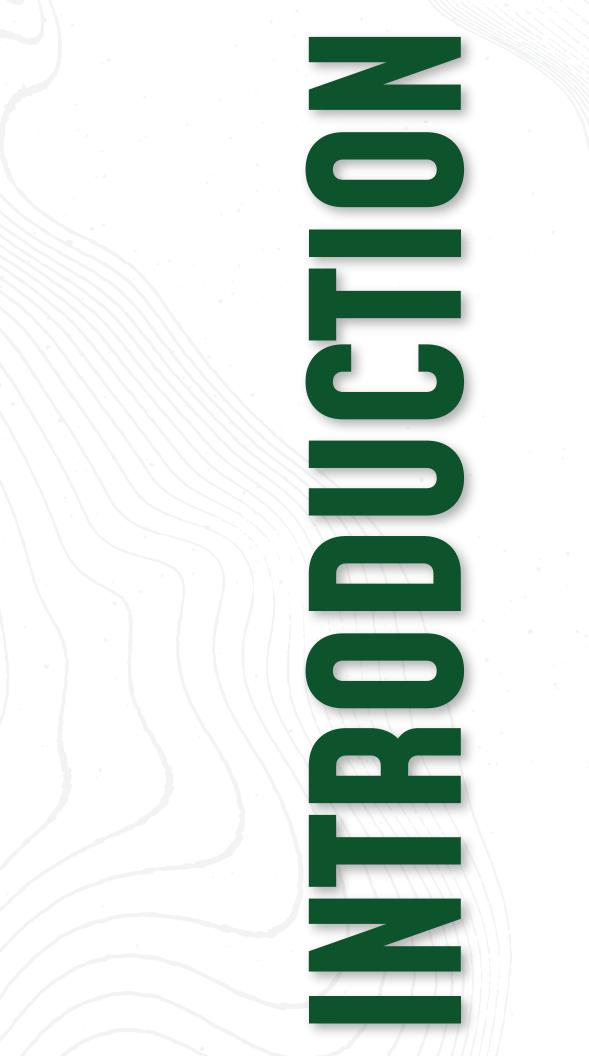
# STUDY GUDE

25 EXAMPREP QUESTIONS WITH ANSWERS RED SEAL

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## 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!





## **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!

For more information, tips, and resources, head over to www.RedSealStudyGuide.ca Let's craft your future together!



# 1. Which instrument is utilized as a reference point while marking with a vernier height gauge?

- A: Faceplate
- B: Surface plate
- C: Shaped angle plate
- D: License plate

#### 2. What is the maximum diameter Dia 25 (+0.003, -0.001) limit size?

- A: 25.003 mm
- B: 25.001 mm
- C: 24.997 mm
- D: 24.999 mm

#### 3. What is the minimum limit size of a dimension 50 (+0.03, -0.02)?

- A: 50.03 mm
- B: 50.02 mm
- C: 49.97 mm
- D: 49.98 mm

#### 4. What is the expansion of rpm used in drilling?

- A: A revolution every mile
- B: Revolution every meter
- C: Revolution every minute
- D: Minute Retardation

#### 5. Which motor controls the CNC machine's axes?

- A: Servo motor
- B: Air motor
- C: Hydraulic motor
- D: DC series

See answers on the next page.

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1.	(A) Note:									
2.	A Note:									
3.	A Note:					 				
4.	A Note:	B	C	D	 		 		 	 
5.	A Note:			D						

#### 6. What type of chuck does a CNC lathe use?

- A: Chuck has two jaws
- B: Chuck, hydraulic
- C: Chuck with three jaws
- D: Chuck with four jaws

#### 7. What is the maximum machining length in a CNC lathe?

- A: 320 mm
- B: 245 mm
- C: 200 mm
- D: 340 mm

#### 8. What is the speed range of a CNC machine's spindle?

A: 40-500 RAM B: 40-4000 RAM C: 10-600 RAM D: 30-1000 RAM

#### 9. What kinds of taper are there in the CNC machine spindle?

A: ISO 40 B: Morse taper C: Pin taper D: Jarno taper

10. When the machine moves 25.49 mm for the common X = 25.50 mm, what must be the positional accuracy?

A: 0.001 mm B: 0.01 mm C: 0.1 mm D: 1 millimeter

See answers on the next page.

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6.			C							
	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. Which quadrant of the cartesian coordinate system will have a positive value in both X and Y?

- A: Fourth
- B: Second
- C: Third
- D: First

#### 12. What is a part-time job?

- A: Machine instructions
- B: Instruction to manager
- **C:** Supervisory Instructions
- D: Instruction to manager

#### 13. What equipment is used in a CNC feedback system?

- A: The control unit
- B: Axis motor
- C: Encoder
- D: Spindle motor

#### 14. What type of machine is utilized for face milling?

A: CNC lathe B: CNC machining C: CNC VMC D: CNC wire EDM

#### 15. In CNC milling, what type of guideway is used?

A: LM guide way B: Flat C: V and flat D: Dovetail

See answers on the next page.

11.	A	B	C	D						
	Note									
12.	A	B	C	D						
	Note									
12	A	B	$\bigcirc$	$\bigcirc$						
13.										
	Note									
14.	A	B	C	D						
	Note									
15.	A	B	(c)	(D)						

#### 16. Which interpolation is joining two points in a straight line?

- A: Circular interpolation
- **B:** Linear interpolation
- C: Helical interpolation
- D: Parabolic interpolation

#### 17. Which gear's teeth are cut on the job's conical surface?

- A: Spur gear
- **B:** Helical gear
- C: Worm wheel
- D: Bevel gear

## 18. Which of the following curve lines is produced by the progressive rotation of a point around a cylinder?

- A: Spiral
- B: Cycloidal
- C: Helix
- D: Involute

#### 19. What is the indexing ratio of a milling machine's splitting head?

- A: 1:40
- B: 80:1
- C: 40:1
- D: 1:8

#### 20. Determine the dedendum of a bevel gear if the module is 3mm.

A: 6.75 mm B: 6 mm C: 3 mm D: 3.75 mm

See answers on the next page.



16.	A	B	(C)	D						
	Note:									
17.	A	B	$\bigcirc$							
_,,	$\odot$	U	C	U						
	Note:									
4.0		$\bigcirc$		$\bigcirc$						
18.	A	B	$\bigcirc$	$\bigcirc$						
	Note:									
	~	_	_	~						
19.	(A)	B	(C)	(D)						
	Note:									
20.	(A)	B	(C)	D						
	Note:									

#### 21. What form of the follower is not commonly used in the cam drive?

- A: Roller
- B: Knife edge
- C: Mushroom
- D: Flat-faced

#### 22. Which machine is used to cut a helical groove on a piece of work?

- A: Milling vertically
- B: Milling of turret heads
- C: Universal milling
- D: Horizontal milling

#### 23. Which gear is classed based on the tooth surface and application?

- A: Spur
- **B**: Helical
- C: Worm
- D: Bevel

#### 24. Which type of bevel gear is used to connect shafts that are at an angle but not intersecting?

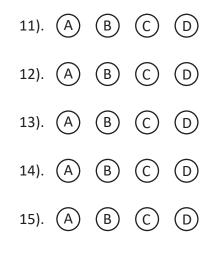
- A: Spiral bevel
- B: Straight bevel gear
- C: Hypoid gearing
- D: Miter equipment

# 25. Which knurling tool contains one roller with right-hand helical teeth and the others with left-hand helical teeth?

- A: Cross knurling
- B: Concave knurling
- C: Straight knurling
- D: Diamond knurling

21.	(A)	B	C	D						
	Note:									
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22.	A	B	$\bigcirc$	(D)						
	Note:									
		$\sim$								
23.	(A)	(B)	(C)	$\bigcirc$						
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24.	(A)	B	(C)	(D)						
	Note:									
	$\bigcirc$									
25.	A	B	$\bigcirc$	$\bigcirc$						
	Note:									

-



6).	A	B	C	D	
7).	A	B	C	D	
8).	A	B	C	D	
9).	A	B	C	D	
10).	A	В	<b>()</b>	D	

2).	A	B	C	D	
3).	A	B	C	D	
4).	A	B	C	D	
5).	A	B	C	D	
16).	A	B	<b>(C)</b>	D	

(A)

(A)

(A)

(A)

17).

18).

19).

20).

B

B

B

B

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

D

D

D

D

1). (A) (B) (C) (D)

21).	A	B	<b>(C)</b>	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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