

(Metal cutting- and CNC machinist A2) - Answer Key

Reading

Pre-reading task- (suggested answers): *In the picture, I can see a CNC machine, but it isn't in operation. I think it's a milling machine, which type is Z-MaT TRX 550. When we mill, we cut chips from the work surface. We can machine different metals, e. g. steel, alloy steel, brass, copper alloys, titanium. There are cutting tools which we use for milling.*

Task A

1. F (TRX550 PRO is a vertical milling machine.)
2. F (The work table has extended X-Axis travel of 21.5''.)
3. T
4. F (Machinists can carry out the milling of large workpieces on TRX550 PRO.)
5. T
6. T

Task B

Product Information

<i>Model name</i>	TRX550 PRO Small Vertical Machining Center
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<i>Price</i>	\$28,606.00
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Travels and Feed Rates

<i>X-Axis (in inch)</i>	21.5''
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Table

<i>Length (in inch)</i>	40''
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Spindle

<i>Spindle Power (in HP/Horsepower)</i>	5 HP
<i>RPM Range (in RMP/ Revolution Per Minute)</i>	50-6000 RPM
<i>Drive (Motor) system</i>	Servo
<i>Taper (tool holder) type</i>	BT 30

Control Panel

Type	Siemens 808D
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Linear Guides and Ball Screws

Feedrate (in IPM/ inches per minute)	1000 IPM
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Task C: 1-d, 2-e, 3-a, 4-b, 5-g, 6-c, 7-f

Writing

Curriculum vitae

Task A: 1-B, 2-E, 3-F, 4-G, 5-H, 6-D, 7-C, 8-I, 9-A

Covering letter

Task A: 1-E, 2-A, 3-B, 4-D, 5-C

Small Talks

Task A: At the job interview

1) 1-F, 2-B, 3-D, 4-E, 5-H, 6-G, 7-A, 8-C

Task B: In the machine shop

1) 1-D, 2-E, 3-A, 4-F, 5-B, 6-C

Occupational health and safety

Task A: 1-light, 2-spindles, 3-grinding, 4-motors, 5-wet, 6-machines, 7-handle, 8- sharp

Task B: 1. ✓; 2. ✓; 3. Don't; 4. Don't; 5. ✓; 6. Don't; 7. Don't; 8. Don't; 9. ✓; 10. Don't; 11. ✓; 12. ✓

Task C: Warning Signs: 1-E, 2-A, 3-D, 4-B, 5-F, 6-C

Mandatory Signs: 7-N, 8-M, 9-L, 10-K, 11-J, 12-G, 13-O, 14-H, 15-I, 16-P