Between the dotted lines are questions pertaining to the same category. This is for randomizing questions so that students do not receive the same questions over and over again if retaking the quiz. There would be 16 questions on this MANUAL LATHE quiz. (Correct answers have an asterisk.)

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The manual lathe is typically used for finishing processes.

True  
False

The main purpose of the manual lathe is to rough cut my material.

True  
False

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The manual lathe can be used with most metals, plastics, and woods.

True  
False

The manual lathe can perform operations on any material.

True   
False

The manual lathe can perform operations on hardened metals.

True  
False

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The manual lathe can only perform operations on cylindrical materials.

True  
False

The manual lathe has distinct jaws for materials of different geometries.

True  
False

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I must wear proper PPE to operate the manual lathe.

True  
False

It is always important to pay attention to hair, clothing, and jewelry when operating the manual lathe.

True  
False

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There are four main operations when using the manual lathe.

True  
False

Facing, turning, and center drilling are the three main operations when using the manual lathe.

True  
False

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The manual lathe’s carriage operates in two directions, x and z.

True  
False

The carriage of the manual lathe can move in the x, y, and z directions.

True  
False

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The chuck guard must be lowered before any operations can begin on the manual lathe.

True  
False

The chuck guard of the manual lathe is only needed when performing operations on metals.

True  
False

The chuck of the manual lathe will not rotate until the chuck guard is lowered.

True  
False

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When using the manual lathe, I must be especially aware to NOT leave the chuck key in the chuck.

True  
False

The chuck key MUST be REMOVED from the chuck as soon as I finish tightening my material in the chuck.

True  
False

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If the chuck key is not in my hands being used it MUST be in the tool stand on the manual lathe.

True  
False

The chuck key may be stored anywhere on the manual lathe machine.

True  
False

If not removed from the chuck, the chuck key can be extremely dangerous in a machine shop.

True  
False

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My part must be tightly clamped in the jaws with the chuck key before I can begin any operations.

True  
False

The chuck of the manual lathe rotates very quickly, therefore if my material is not tightly clamped I create a dangerous situation in the ME shop.

True  
False

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If I am machining the same material on the manual lathe and performing multiple different operations I can use the same speeds.

True  
False

If I am unsure of the correct speed for my material and operation on the manual lathe I should ask a TA.

True  
False

The machine operation to be completed affects the correct speeds as much as the material of my part.

True  
False

The type of machine operation and the material to be machined are the biggest factors in determining speeds for the manual lathe.

True  
False

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The green button on the manual lathe is the “on” switch.

True  
False

The green button on the manual lathe is a “ready” indication, not an “on” indication.

True  
False

A lit green button on the manual lathe means the chuck is spinning.

True  
False

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Different operations on the manual lathe require different tools.

True  
False

Facing and turning always use the same tool.

True  
False

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If I require a unique operation I may need to build a tool, otherwise commonly used tools are already built and ready for use once tightened in the mount.

True  
False

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Power feeds are available in both the x and z directions on the manual lathe.

True  
False

Power feeds apply the tool at a constant speed, which means a smoother surface finish on my part.

True  
False

Power feeds’ speeds are adjusted on the same control panel as the chuck and power.

True  
False

I should ask a TA to help me determine proper power feeds’ speeds.

True  
False

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The TA’s will clean the manual lathe for me after I leave.

True  
False

It is my responsibility to clean the manual lathe when I am finished using it.

True  
False

Scraps from clean up belong in the large blue bins in the lab.

True  
False

I should use a rag to clean up all chips and scraps from the manual lathe.

True  
False

I should use the broom, brushes, and dust pans to clean the manual lathe when I am finished using it.

True  
False