

# Production Engineer Interview Questions And Answers Guide.



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## Production Engineer Job Interview Preparation Guide.

### Question # 1

Segmental chips are formed during machining:

- A. mild steel
- B. cast iron
- C. high speed steel
- D. high carbon steel

**Answer:-**

- B. cast iron

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### Question # 2

If the diameter of the hole is subject to considerable variation, then for locating in jigs and fixtures, the pressure type of locator used is:

- A. conical locator
- B. cylindrical locator
- C. diamond pin locator
- D. vee locator

**Answer:-**

- A. conical locator

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### Question # 3

Side rake angle of a single point cutting tool is the angle:

- A. by which the face of the tool is inclined towards back
- B. by which the face of the tool is inclined sideways
- C. between the surface of the flank immediately below the point and a plane at right angles to the centre line of the point of the tool
- D. between the surface of the flank immediately below the point and a line drawn from the point perpendicular to the base

**Answer:-**

- B. by which the face of the tool is inclined sideways

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### Question # 4

Cemented carbide tool tips are produced by powder metallurgy.

- A. True
- B. False

**Answer:-**

- A. True

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### Question # 5

In order to prevent tool from rubbing the work \_\_\_\_\_ on tools are provided.

- A. rake angles
- B. relief angles

**Answer:-**

- B. relief angles

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### Question # 6

The silicon carbide abrasive is chiefly used for grinding:



- A. cemented carbide
- B. ceramic
- C. cast iron
- D. all of these

**Answer:-**

- D. all of these

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### Question # 7

Drilling is an example of:

- A. orthogonal cutting
- B. oblique cutting
- C. simple cutting
- D. uniform cutting

**Answer:-**

- B. oblique cutting

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### Question # 8

A round nose tool may be fed either from left to right end or from right to left end of the lathe bed.

- A. Yes
- B. No

**Answer:-**

- A. Yes

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### Question # 9

When the cutting edge of the tool is dull, then during machining:

- A. continuous chips are formed
- B. discontinuous chips are formed
- C. continuous chips with built-up edge are formed
- D. no chips are formed

**Answer:-**

- C. continuous chips with built-up edge are formed

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### Question # 10

Internal gears can be made by:

- A. hobbing
- B. shaping with pinion cutter
- C. shaping with rack cutter
- D. milling

**Answer:-**

- B. shaping with pinion cutter

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### Question # 11

Cast iron during machining produces

- A. continuous chips
- B. discontinuous chips
- C. continuous chips with built-up-edge
- D. none of these

**Answer:-**

- B. discontinuous chips

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### Question # 12

A single point thread cutting tool should ideally have:

- A. zero rake angle
- B. positive rake angle
- C. negative rake angle
- D. point angle

**Answer:-**

- A. zero rake angle

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### Question # 13



A fine grained grinding wheel is used to grind hard materials.

- A. Correct
- B. Incorrect

**Answer:-**

- A. Correct

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### Question # 14

The cutting tool in a milling machine is mounted on:

- A. spindle
- B. arbor
- C. column
- D. knee

**Answer:-**

- B. arbor

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### Question # 15

The tool made of cemented carbide wear out faster at:

- A. slow speeds
- B. medium speeds
- C. fast speeds
- D. very fast speeds

**Answer:-**

- A. slow speeds

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### Question # 16

A push broach as compared to pull broach:

- A. has less number of teeth
- B. is short and stocky
- C. removes less material for each pass of the tool
- D. all of the above

**Answer:-**

- D. all of the above

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### Question # 17

The work or surface speed for cylindrical grinding varies from

- A. 5 to 10 m/min
- B. 10 to 20 m/min
- C. 20 to 30 m/min
- D. 40 to 60 m/min

**Answer:-**

- C. 20 to 30 m/min

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### Question # 18

A twist drill is a:

- A. side cutting tool
- B. front cutting tool
- C. end cutting tool
- D. none of these

**Answer:-**

- C. end cutting tool

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### Question # 19

The rake angle required to machine brass by high speed steel tool is:

- A. 0.
- B. 10.
- C. 20.
- D. -10.

**Answer:-**

- A. 0.

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### Question # 20

Twist drills are made of:

- A. high speed steel
- B. carbon steel
- C. stainless steel
- D. either (a) or (b)

**Answer:-**

- D. either (a) or (b)

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### Question # 21

The average cutting speed for turning brass with a high speed steel tool is:

- A. 15 to 19 m/min
- B. 25 to 31 m/min
- C. 60 to 90 m/min
- D. 90 to 120 m/min

**Answer:-**

- C. 60 to 90 m/min

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### Question # 22

Side rake angle on tools is provided to control chip flow.

- A. True
- B. False

**Answer:-**

- A. True

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### Question # 23

The maximum production of small and slender parts is done by:

- A. watch maker's lathe
- B. sliding head stock automatic lathe
- C. multispindle automatic lathe
- D. capstan lathe

**Answer:-**

- C. multispindle automatic lathe

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### Question # 24

The lip angle of a single point tool is usually:

- A. 20. to 40.
- B. 40. to 60.
- C. 60. to 80.
- D. none of these

**Answer:-**

- C. 60. to 80.

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### Question # 25

A fixture does not guide the tool.

- A. Correct
- B. Incorrect

**Answer:-**

- A. Correct

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### Question # 26

A fixture is defined as a device which:

- A. holds and locates a workpiece and guides and controls one or more cutting tools
- B. holds and locates a workpiece during an inspection or for a manufacturing operation
- C. is used to check the accuracy of workpiece
- D. all of the above

**Answer:-**

- B. holds and locates a workpiece during an inspection or for a manufacturing operation

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### Question # 27

The facing is an operation of:

- A. bevelling the extreme end of a workpiece
- B. embossing a diamond shaped pattern on the surface of a workpiece
- C. reducing the diameter of a workpiece over a very narrow surface
- D. machining the ends of a workpiece to produce a flat surface square with the axis

**Answer:-**

- D. machining the ends of a workpiece to produce a flat surface square with the axis

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### Question # 28

Which of the following statement is wrong about ultra-sonic machining?

- A. It is best suited for machining hard and brittle materials.
- B. It cuts materials at very slow speeds.
- C. It removes large amount of material.
- D. It produces good surface finish

**Answer:-**

- C. It removes large amount of material.

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### Question # 29

A drill considered as a cutting tool having zero rake, is known as a:

- A. flat drill
- B. straight fluted drill
- C. parallel shank twist drill
- D. tapered shank twist drill

**Answer:-**

- B. straight fluted drill

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### Question # 30

In oblique cutting system, the maximum chip thickness occurs at the middle.

- A. Correct
- B. Incorrect

**Answer:-**

- B. Incorrect

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### Question # 31

The method of grinding used to produce a straight or tapered surface on a workpiece, is:

- A. internal cylindrical grinding
- B. form grinding
- C. external cylindrical grinding
- D. surface grinding

**Answer:-**

- C. external cylindrical grinding

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### Question # 32

Gear lapping is an operation:

- A. after heat treatment
- B. prior to heat treatment
- C. for gear reconditioning
- D. none of these

**Answer:-**

- A. after heat treatment

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### Question # 33

Crater wear occurs mainly on the:

- A. nose part, front relief face and side relief face of the cutting tool
- B. face of the cutting tool at a short distance from the cutting edge only
- C. cutting edge only
- D. front face only

**Answer:-**

- B. face of the cutting tool at a short distance from the cutting edge only

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### Question # 34

The lead screw of a lathe has \_\_\_\_\_ threads.

- A. single start
- B. double start
- C. multi-start
- D. any one of these

**Answer:-**

- A. single start

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### Question # 35

A left hand tool on a lathe cuts most efficiently when it travels.

- A. from left to right end of the lathe bed
- B. from right to left end of the lathe bed
- C. with the help of a compound slide
- D. across the bed

**Answer:-**

- A. from left to right end of the lathe bed

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### Question # 36

In up milling, the thickness of chip is:

- A. minimum at the beginning of the cut and maximum at the end of the cut
- B. maximum at the beginning of the cut and minimum at the end of the cut
- C. uniform throughout the cut
- D. none of these

**Answer:-**

- A. minimum at the beginning of the cut and maximum at the end of the cut

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### Question # 37

The machining of titanium is difficult due to:

- A. high thermal conductivity of titanium
- B. chemical reaction between tool and work
- C. low tool-chip contact area
- D. none of these

**Answer:-**

- C. low tool-chip contact area

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### Question # 38

In the relation  $VT(n) = C$ , the value of n for carbide tools is:

- A. 0.1 to 0.2
- B. 0.20 to 0.25
- C. 0.25 to 0.40
- D. 0.40 to 0.55

**Answer:-**

- B. 0.20 to 0.25

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### Question # 39

In orthogonal cutting system, the maximum chip thickness occurs at the middle.

- A. Correct
- B. Incorrect

**Answer:-**

- A. Correct

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### Question # 40

Lapping is an operation of:

- A. making a cone-shaped enlargement of the end of a hole
- B. smoothing and squaring the surface around a hole
- C. sizing and finishing a small diameter hole
- D. producing a hole by removing metal along the circumference of a hollow cutting tool

**Answer:-**

- C. sizing and finishing a small diameter hole

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### Question # 41

If the helix angle of the drill is made \_\_\_\_\_ 30., then the torque required to drive the drill at a given feed will be more.

- A. equal to
- B. less than
- C. more than

**Answer:-**

- B. less than

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### Question # 42

The different spindle speeds on a lathe form:

- A. arithmetical progression
- B. geometrical progression
- C. harmonical progression
- D. any one of these

**Answer:-**

- B. geometrical progression

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### Question # 43

In hot machining, tool is made of:

- A. tungsten carbide
- B. brass or copper
- C. diamond
- D. stainless steel

**Answer:-**

- A. tungsten carbide

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### Question # 44

Larger end cutting edge angle \_\_\_\_\_ tool life.

- A. increases
- B. decreases
- C. does not effect

**Answer:-**

- A. increases

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### Question # 45

The correct sequence of tool materials in increasing order of their ability to retain their hot hardness is:

- A. carbide, ceramic, cermet, borazon
- B. ceramic, carbide, borazon, cermet
- C. cermet, carbide, ceramic, borazon
- D. borazon, ceramic, carbide, cermet

**Answer:-**

- C. cermet, carbide, ceramic, borazon

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### Question # 46

The angle included between the two lips projected upon a plane parallel to the drill axis and parallel to the two cutting lips, is called helix angle.

- A. Correct
- B. Incorrect

**Answer:-**

- B. Incorrect

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### Question # 47

Grinding wheels should be tested for balance:

- A. only at the time of manufacture
- B. before starting the grinding operation
- C. at the end of grinding operation
- D. occasionally

**Answer:-**

- D. occasionally

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### Question # 48

In ultra-sonic machining, the metal is removed by:

- A. using abrasive slurry between the tool and work
- B. direct contact of tool with the work
- C. maintaining an electrolyte between the work and tool in a very small gap between the two
- D. erosion caused by rapidly recurring spark discharges between the tool and work

**Answer:-**

- A. using abrasive slurry between the tool and work

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### Question # 49

The velocity of tool relative to the work piece is known as cutting velocity.

- A. True
- B. False

**Answer:-**

- A. True

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### Question # 50

Which of the following statement is incorrect with reference of lathe cutting tools?

- A. The flank of the tool is the surface or surfaces below and adjacent to the cutting edges
- B. The nose is the corner, arc or chamfer joining the side cutting and the end cutting edges
- C. The heel is that part of the tool which is shaped to produce the cutting edges and face
- D. The base is that surface of the shank which bears against the support and takes tangent pressure of the cut

**Answer:-**

- C. The heel is that part of the tool which is shaped to produce the cutting edges and face

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### Question # 51

The cutting in a milling machine is mounted on.?

**Answer:-**

- Arbor

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### Question # 52

Drilling is an example of?

**Answer:-**

- Oblique

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