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Experienced Worker Assessment Blueprint

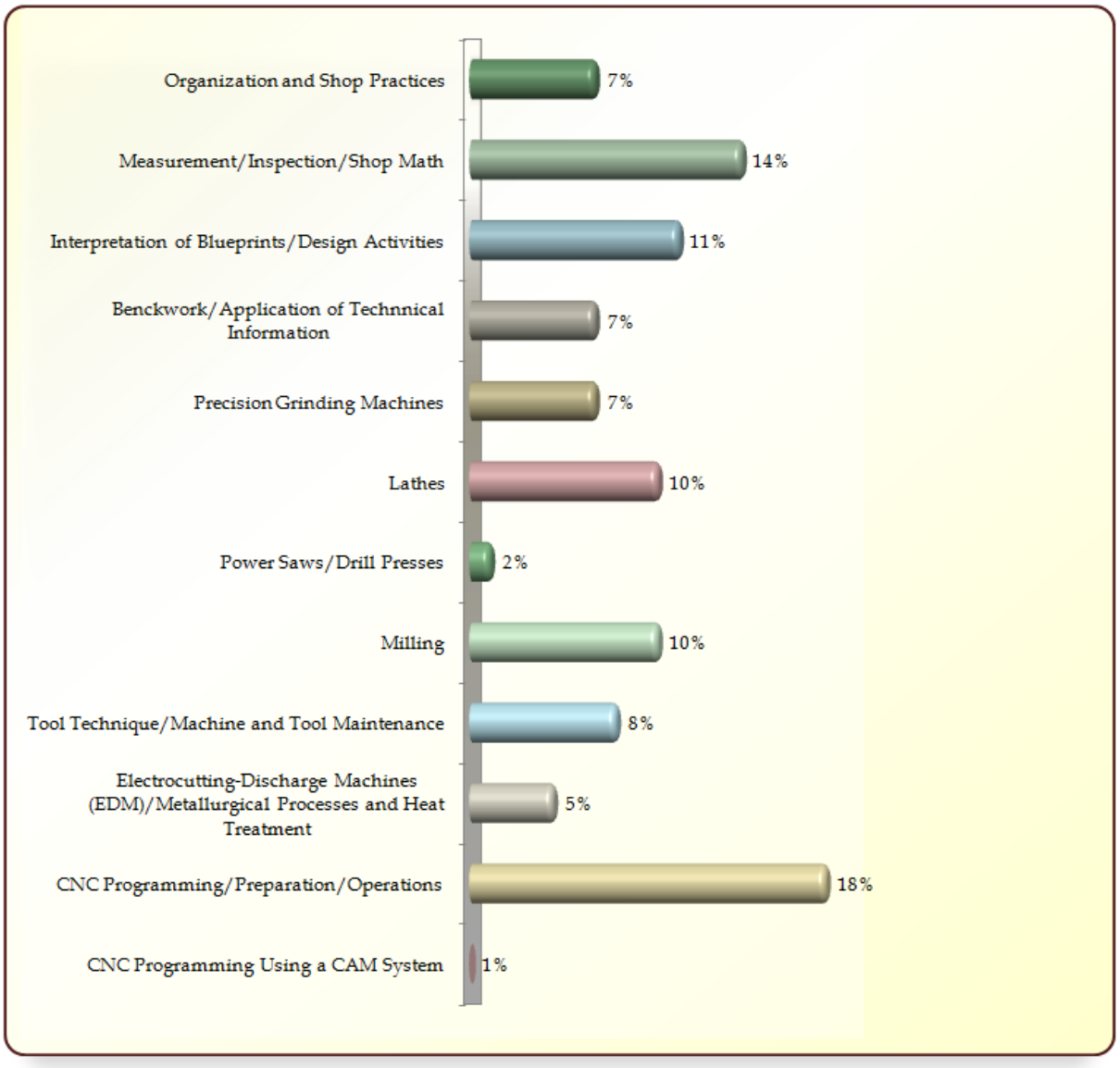
Precision Machining

Test Code: 0220 / Version: 01

Written Assessment:

Administration Time: 3 hours
Number of Questions: 195

Areas Covered:



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Sample Questions:

The proper tool for removing a broken tap is the

A. tap extractor
B. chisel
C. punch
D. scriber

Of the following, the most versatile layout tool is the

A. surface gauge
B. combination set
C. hermaphrodite caliper
D. vernier height gauge

The process of forming horizontal or diamond-shaped serrations on the circumference of a workpiece is

A. facing
B. knurling
C. boring
D. kneading

Which of the following is <u>not</u> part of the dividing head?

A. index crank
B. index plate
C. sector arms
D. arbor support

Information retained by a CNC system until new information replaces it is said to be

A. interpolated
B. digital
C. random
D. modal

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Performance Assessment:

Administration Time: 4 hours
Number of Jobs: 3

Areas Covered:

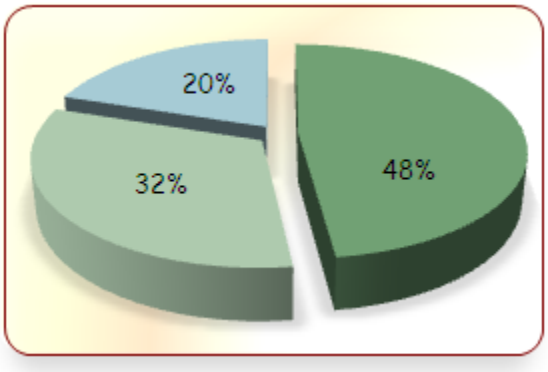
48% **Millblock**

Workholding and tooling setups, selection of cutting tools, selection of appropriate feeds and speeds, milling workpiece square to size, milling slot, milling angle, deburring, drill cross holes, safety procedures, cleanup and care of tools and equipment, tramming the head, indicating the vise, width square to length, pattern of holes, size of drilled hole, overall finish and quality of work.

32% **Adapter Arbor**

Setup for 30° angle and 45° chamfer, setup and cutting procedure of relief groove and threading, thread measurement, safe work habits, proper workholding methods chosen to maintain concentricity, metal removal rate, proper geometry on tool bits, setup for taper turning, surface finished on turned diameters, accuracy of machined lengths and square shoulders.

20% **CNC Programming**



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Sample Job: Mill Block

Estimated Job Time: 1 hour and 45 minutes

Participant Activity: Following industrial safety rules, the participant will machine the block on the milling machine according to the specifications give on the drawing provided in each participant's test booklet.

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