

Machinist Harmonized Level 3

STANDARDIZED LEVEL EXAM (SLE) BREAKDOWN

The following table shows the number of questions per General Area of Competency (GAC) and Competency on the *Machinist Harmonized Level 3 SLE*.

Number of questions on each exam: 100

Level 3 GAC/Competency	#
C. USE APPLIED MATHEMATICS	7
C1. Solve problems involving formulas	4
C5. Solve problems involving trigonometry	3
D. USE MEASURING TOOLS	5
D3. Use calipers and gauges	3
D4. Use dial indicators and digital readouts	2
E. INTERPRET DRAWINGS AND REFERENCE MATERIALS	5
E4. Use Machinery's Handbook and other reference materials	5
F. SELECT MATERIALS	11
F5. Perform heat treating	8
F6. Perform materials testing	3
G. REFURBISH COMPONENTS	3
G3. Describe bearings, seals and bearing materials	3
J. USE LATHES	9
J5. Cut threads	6
J6. Describe vertical lathes	3
K. USE MILLING MACHINES	10

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Level 3 GAC/Competency	#
K3. Use dividing heads and rotary tables	4
K4. Operate and maintain milling machines	4
K5. Describe boring mills	2
M. USE PRECISION GRINDERS	10
M1. Describe types of precision grinders	4
M3. Operate and maintain grinders	6
N. USE CNC MACHINES	40
N4. Describe CNC machining centres	9
N5. Establish co-ordinate systems and apply programming codes for turning centres	18
N6. Operate and maintain CNC turning centres	9
N7. Create 2D and 3D models	2
N8. Program using CAM	2
Total:	100