

Machinist Harmonized Level 1

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 1 SLE*.

Number of questions on each exam: 100

Leve	GAC/Competency	#
A.	ERFORM SAFETY RELATED TASKS	11
	1. Describe Occupational Health and Safety Regulations	2
	2. Describe WHMIS and Hazardous Materials Safety (HAZMAT)	2
	3. Apply safety practices for shop areas	3
	4. Use lifting equipment	4
В.	ERFORM HAND PROCESSES	9
	1. Use and maintain hand tools	3
	2. Use layout tools	3
	3. Use and maintain handheld power tools	2
	4. Mark material and workpiece for identification	1
C.	SE APPLIED MATHEMATICS	11
	Solve problems involving formulas	3
	2. Perform metric/imperial conversions	2
	3. Solve problems involving geometry	2
	4. Solve problems involving mass, area and volume	2
	5. Solve problems involving trigonometry	2
D.	SE MEASURING TOOLS	9
	1. Use linear and Vernier scales	2
	2. Use micrometers	2
	3. Use calipers and gauges	2
	4. Use dial indicators and digital readouts	2
	5. Use optical measuring equipment	1
E.	NTERPRET DRAWINGS AND REFERENCE MATERIALS	8
	1. Interpret information found on drawings	3
	2. Determine project requirements	1

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Level 1 GAC/Competency		#
	E3. Sketch machined parts	1
	E4. Use Machinery's Handbook and other reference materials	0
	E5. Describe fits and tolerances	3
F.	SELECT MATERIALS	8
	F1. Describe principles of metallurgy	2
	F2. Describe characteristics of ferrous metals	2
	F7. Describe the use and maintenance of fuel gas equipment	4
G.	REFURBISH COMPONENTS	3
	G1. Identify fasteners	2
	G2. Identify lubricants and sealants	1
H.	USE DRILLING MACHINES	9
	H1. Describe drilling machines	2
	H2. Select and maintain cutting tools	4
	H3. Operate and maintain drilling machines	3
I.	USE POWER SAWS	4
	I1. Describe power saws	1
	I2. Select and maintain band saw blades	1
	I3. Operate and maintain band saws	1
	I4. Operate and maintain other saws	1
J.	USE LATHES	19
	J1. Describe lathes	4
	J2. Describe cutting tools and holders	5
	J3. Operate and maintain lathes	5
	J4. Cut tapers	5
K.	USE MILLING MACHINES	3
	K1. Describe milling machines	2
	K2. Describe cutting tools and holders	1
L.	USE SUPPORT MACHINES	6
	L1. Operate and maintain pedestal grinders	2
	L2. Operate and maintain arbour and hydraulic presses	2
	L3. Operate and maintain hones and lapping machines	2
	Total:	100

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