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

Level 1 GAC/Competency		
А.	PERFORM SAFETY RELATED TASKS	11
	A1. Describe Occupational Health and Safety Regulations	2
	A2. Describe WHMIS and Hazardous Materials Safety (HAZMAT)	2
	A3. Apply safety practices for shop areas	3
	A4. Use lifting equipment	4
B.	PERFORM HAND PROCESSES	9
	B1. Use and maintain hand tools	3
	B2. Use layout tools	3
	B3. Use and maintain handheld power tools	2
	B4. Mark material and workpiece for identification	1
C.	USE APPLIED MATHEMATICS	11
	C1. Solve problems involving formulas	3
	C2. Perform metric/imperial conversions	2
	C3. Solve problems involving geometry	2
	C4. Solve problems involving mass, area and volume	2
	C5. Solve problems involving trigonometry	2
D.	USE MEASURING TOOLS	9
_	D1. Use linear and Vernier scales	2
	D2. Use micrometers	2
	D3. Use calipers and gauges	2
	D4. Use dial indicators and digital readouts	2
	D5. Use optical measuring equipment	1
E.	INTERPRET DRAWINGS AND REFERENCE MATERIALS	8
	E1. Interpret information found on drawings	3
	E2. Determine project requirements	1

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Leve	el 1 G.	AC/Competency	#
	E3.	Sketch machined parts	1
	E4.	Use Machinery's Handbook and other reference materials	0
	E5.	Describe fits and tolerances	3
F.	SEL	ECT 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.	REF	URBISH 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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