	Importance Ratings of 50 or Abov As are obtained by asking knowledg		luals to rate ho							indardized scores		value of 50 i							 		
			Bookkeeping,							Hairdressers,	Licensed practical and	Medical records and health	Nursing aides,					Preschool teachers,			
	KSA Definitions	Automotive master mechanics	auditing, accounting clerks	Civil engineering technicians	,	Customer service representatives	1	Electrical engineering technician	g	hairstylists, and n cosmetologists	licensed vocational nurses	informatio n technician	orderlies, and attendants	and legal	•	Plumber	Police patrol officers	except special education	Radiologic technologists	Real estate sales agents	e Registere nurses
Most Relevant: Knowledge		 			}			 +		 -+	 			 			 				
Mathematics	Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications	48	68	72	40	33	25	62	70	34	59	29	36	40	68	67	38	30	57	53	58
English Language	their applications. Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.	54	67	50	69	65	64	67	57	55	75	63	60	91	66	56	82	63	75	69	75
Most Relevant: Skills				· 					-+				+ +					, + , ,			
Reading Comprehension	Understanding written sentences and paragraphs in work related documents.	91	81	73	72	82	78	74	53	66	72	56	53	91	74	60	60	74	47	81	69
Active Listening	Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.	81	71	67	75	87	86	71	60	86	75	56	60	69	87	63	75	81	60	93	75
Writing	Communicating effectively in writing as appropriate for the needs of the audience.	70	62	57	66	63	68	50		50	56			65	55		53	69		62	63
Speaking	Talking to others to convey	76	60	70	75	74	83	67	53	72	75	53	50	64	82	56	63	75	66	85	72
Mathematics	information effectively. Using mathematics to solve problems.	66	84	76	35	46	27	75	50	45	38	28	31	43	71	35	28	33	35	69	41
Science	Using scientific rules and methods to solve problems.	 	· · · · ·				60				 							, , , , , , , , , , , , , , , , , , , ,			
Critical Thinking	Using logic and reasoning to	90	69	71	69	60	72	74	60	59	72	50	56	56	53	66	69	62	<u> </u>	53	69
	identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.																				
Most Relevant: Abilities					70	70					70	(2)	(0)		70				<i>c</i> 0	75	75
Oral Comprehension	The ability to listen to and understand information and ideas presented through spoken words and sentences.	56	69	69	78	78	69	66	03	12	78	63	60	81	72	03	09	66	69	75	15
Written Comprehension	The ability to read and understand information and ideas presented in writing.	53	69	63	72	63	56	63	56		66	56	53	81	69	60	60	60	50	66	72
Oral Expression	The ability to communicate information and ideas in speaking so others will understand.	53	66	69	78	75	69	60	60	66	75	63	63	81	66	60	75	75	66	75	72
Written Expression	The ability to communicate information and ideas in writing so others will understand.		69	63	69	66	60	56			60	50		75		50	56	56		60	69
Mathematical Reasoning	The ability to choose the right mathematical methods or formulas to solve a problem.	28	66	63	38	38	28	38	53	38	47	31	38	35	56	35	28	25	38	50	47
Number Facility	The ability to add, subtract, multiply, or divide quickly and correctly.		60	53											56						
Other: Knowledge																					
Other: Knowledge Administration and Management	Knowledge of business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership technique, production methods, and				50				67		50					51					
Clerical	Knowledge of administrative and clerical procedures and systems such as word processing, managing		76		56	65						80		78	56		51	, , , , , , , , , , , , , , , , , , ,	55	55	
	files and records, stenography and transcription, designing forms, and other office procedures and terminology.																				

		Automotive master mechanics	accounting clerks	Civil engineering		Customer service epresentatives	4	Electrical engineering technician		Hairdressers, hairstylists, and cosmetologists	licensed vocational	Medical records and health informatio n technician	orderlies, and	and legal	Pharmacy technician s	Plumber	Police patrol officers	Preschool teachers, except special education	Radiologic technologists	1	Registered nurses
Economics and Accounting	Knowledge of economic and accounting principles and practices, the financial markets, banking and the analysis and reporting of financial data.		63																		
Sales and Marketing	Knowledge of principles and methods for showing, promoting, and selling products or services. This includes marketing strategy and tactics, product demonstration, sales techniques, and sales control systems			<u>.</u>																89	
Customer and Personal Service	Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.		62		88	77	75		66	63	83	63	64	52	88	60	71	73	87	88	83
Production and Processing	Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.							53													
Computers and Electronics	Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.	64	51	52	95			84	53			50		59	59				63	55	
Engineering and Technology	Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.	65		72	50			80	62												
Design	Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.			68				63	68							62					
Building and Construction	Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.			78					72							83					
Mechanical	including their designs, uses, repair, and maintenance.	90						63	79				- 			82					
Physics	Knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and sub- atomic structures and								55							52			64		
Chemistry	processes.Knowledge of the chemicalcomposition, structure, andproperties of substances and of thechemical processes andtransformations that they undergo.This includes uses of chemicals andtheir interactions, danger signs,production techniques, and disposal						<u>.</u>			52											50
Biology	methods. Knowledge of plant and animal organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment.										51										66

	KSA Definitions	Automotive master mechanics	accounting	Civil engineering	· · ·	Customer service representatives	4	Electrical engineering technician		Hairdressers, hairstylists, and cosmetologists	licensed vocational	Medical records and health informatio n technician	orderlies, and	and legal	•	Plumber	Police patrol	Preschool teachers, except special education	Radiologic technologists	Real estate sales agents	Registered
Psychology		+			specialists		64			cosnecologists	82			45515141115			75	69		53	80
Sociology and Anthropology	Knowledge of group behavior and dynamics, societal trends and influences, human migrations, ethnicity, cultures and their history																58				58
Medicine and Dentistry	and origins. Knowledge of the information and techniques needed to diagnose and treat human injuries, diseases, and deformities. This includes symptoms, treatment alternatives, drug properties and interactions, and preventive health-care measures						91				90		57		56				80		91
Therapy and Counseling	Knowledge of principles, methods, and procedures for diagnosis, treatment, and rehabilitation of physical and mental dysfunctions, and for career counseling and guidance.										67										67
Education and Training	Knowledge of principles and methods for curriculum and training design, teaching and instruction for individuals and groups, and the measurement of training effects.						59		54		60						57	68	52		71
Public Safety and Security	Knowledge of relevant equipment, policies, procedures, and strategies to promote effective local, state, or national security operations for the protection of people, data, property, and institutions.			55				52									91	50			56
Law and Government	Knowledge of laws, legal codes, court procedures, precedents, government regulations, executive orders, agency rules, and the democratic political process.													88			88			63	
Telecommunications	Knowledge of transmission, broadcasting, switching, control, and operation of telecommunications systems.				61				55								60				
		1				1	1	Ĩ	i			I	i	1		1	,	i		1	
Active Learning	Understanding the implications of new information for both current and future problem-solving and decision-making.	93	68	73	56	71	78	71	56	63	60		53	62	80	50	56	57		57	60
Learning Strategies	Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things.	76	65	55		66	60	68		65	53				56			70		52	50
Monitoring	Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.	62			56	74	52	67	53	56	66	50	60	51	54	56	66	62	56	59	66
Social Perceptiveness	Being aware of others' reactions and understanding why they react as they do.		63		53	60	72			70	66		66		51	50	66	68	56	63	81
Coordination Persuasion	Adjusting actions in relation to others' actions. Persuading others to change their	70		65	53	57	70 60	63	50	70	69		56	59	54	50	60 60	56	56	73	72 50
Negotiation	minds or behavior. Bringing others together and trying to reconcile differences.					1 			1 1 1 1 1 1 1				 				60	56		85	

	KSA Definitions	Automotive master mechanics	Bookkeeping, auditing, accounting clerks	Civil engineering		Customer service representatives	1	Electrical engineering technician	•	Hairdressers, hairstylists, and cosmetologists	Licensed practical and licensed vocational nurses	Medical records and health informatio n technician	and	Paralegals Pharmacy and legal technician assistants s	Plumber	Police patrol officers	Preschool teachers, except special education	Radiologic technologists	Real estate sales agents	Registered nurses
Instructing	Teaching others how to do		53			51					56		 	77			76	50		56
Service Orientation	something. Actively looking for ways to help		, , , ,		53	73	59	62	, , , , ,	57	69		63	80	50	60	60	60	67	69
	people.	; ; ;			 	 	}						' ' '							
	Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.	87		66	63			63	56		60				60	50			51	56
Operations Analysis	Analyzing needs and product requirements to create a design.							58		55										
Technology Design	Generating or adapting equipment and technology to serve user needs.	58						56					<u>-</u>							
Equipment Selection	Determining the kind of tools and equipment needed to do a job.	94	1 1 1				62	68	50	61			 		50					
	Installing equipment, machines, wiring, or programs to meet specifications.	87						66	53				 						} 	
	Watching gauges, dials, or other indicators to make sure a machine is working properly.	64							60						56			56		50
Operation and Control	Controlling operations of equipment or systems.	62					[65	50						53			60	}	
Equipment Maintenance	Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.	76						54	56											
	Determining causes of operating errors and deciding what to do about it.	98						79	66						53					
Repairing	Repairing machines or systems	95						68	63				 		53					
	using the needed tools. Conducting tests and inspections of	58	1 	' - - -					60				ı I I		56					50
	products, services, or processes to evaluate quality or performance.												1 		50					50
Judgment and Decision Making	Considering the relative costs and benefits of potential actions to	65		59	56		57	62	56	53	66		50	50	56	56	53	50	59	63
Systems Analysis	choose the most appropriate one. Determining how a system should work and how changes in conditions, operations, and the				50			56												50
Time Management	environment will affect outcomes. Managing one's own time and the time of others.	73	73	70	60	74	75	65	50	72	66	50	50	70 60	53		65	50	87	50
Management of Financial Resource	Determining how money will be	<u> </u>	58				<u> </u>		 				 						51	
	spent to get the work done, and accounting for these expenditures.								1 1 1 1				1 1 1 1							
Management of Material Resources	Obtaining and seeing to the appropriate use of equipment, facilities, and materials needed to									50										
Management of Personnel Resource	do certain work. Motivating, developing, and		 				{		50				 							
	directing people as they work, identifying the best people for the job.																			
Other Abilities																				
Fluency of Ideas	The ability to come up with a number of ideas about a topic (the number of ideas is important, not their quality, correctness, or								50	60							63		50	
	creativity). The ability to come up with unusual or clever ideas about a given topic		- - - - - - - -	50						66			- - - - - - - - - - - - - - - - - - -				66		}	
	or situation, or to develop creative ways to solve a problem.																			
	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a		63	63	63	63	69	69	75	56	78	50	63	60 66	69	78	69	60	56	81
Deductive Reasoning	problem. The ability to apply general rules to specific problems to produce answers that make sense.		53	63	63	60	53	66	66	50	66	50	53	60 60	66	72	60	56	56	72

	KSA Definitions	Automotive master mechanics	-	Civil engineering		Customer service representatives	4	Electrical engineering technician	Electrician	Hairdressers, hairstylists, and cosmetologists	licensed vocational	Medical records and health informatio n technician	and	and legal	• 1	Plumber	Police patrol officers	Preschool teachers, except special education	Radiologic technologist	1	Registered nurses
Inductive Reasoning	The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).	63	53	53	60	56	56	60	63	50	63		50	56	50	63	69	53		53	78
Information Ordering	The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).		56	56	66	56	50	50	63		60	56	53	63	63	56	60	53	60	63	72
Category Flexibility	The ability to generate or use different sets of rules for combining or grouping things in different ways.	50	53	53	56				53		53	53		60	63		50	53	53	53	63
Memorization	The ability to remember information such as words, numbers, pictures, and procedures.	50									•						*				
Speed of Closure	The ability to quickly make sense of, combine, and organize information into meaningful patterns.										1 1 1 1 1 1 1 1 1										53
Flexibility of Closure	The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in	63	· ·						53		50			53	50	53	66		53		60
Perceptual Speed	The ability to quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a				50				56				50		53	53	63		53		56
Visualization	The ability to imagine how something will look after it is moved around or when its parts are			63				50	63	63						60			50		
Selective Attention	moved or rearranged. The ability to concentrate on a task over a period of time without being distracted.	53	53	53	56	50	50		53	56	56				50	50	69	50	50		60
Time Sharing	The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources).										50						60				53
Arm-Hand Steadiness	The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.						63	50	66	78	60		56		50	72	53		60		56
Manual Dexterity	The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.	69					60		69	78			53			63	50		53		53
Finger Dexterity	The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects.				50		66	53	66	75	50	50	56		50	72	50		56		56
Control Precision	The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.	72					50		50							69	53	+	56		
Multilimb Coordination	The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing, or lying down. It does not involve performing the activities while the whole body is in motion.	69							63	56	50		53			69	56		56		

	KSA Definitions	Automotive master mechanics	accounting	Civil engineering		Customer service epresentatives	1	Electrical engineering technician		Hairdressers, hairstylists, and cosmetologists	licensed vocational	Medical records and health informatio n technician	and	and legal		Plumber	Police patrol officers	Preschool teachers, except special education	Radiologic	keal estate sales agents	Registered nurses
Response Orientation	The ability to choose quickly	50			specialists		iiygiciiists			cosifictorogists				ussistants	5		53	cuucution		agents	
F	between two or more movements in								, , , ,									- - - - -			1
	response to two or more different			1 1 1					 									1 1 1		1	
	signals (lights, sounds, pictures). It			1				1 1 1			1 1 1						1				
	includes the speed with which the								 									- - - - -			J
	correct response is started with the		1	1 1 1					1 1 1									1 1 1			·
	hand, foot, or other body part.			1 1 1 1					1 1 1 1									 			1
Reaction Time	The ability to quickly respond (with	60		, , , ,	}				50		 			}			66				
Reaction Time	the hand, finger, or foot) to a signal	00							50								00	- - - - -			1
	(sound, light, picture) when it			1					 												
	appears.							1 1 1			1 1 1						1 1 1				
Speed of Limb Movement	The ability to quickly move the				1		+	-L I I	r		J 	i					50	· · ·	+	í	
1	arms and legs.		1	1 1 1					1 1 1									1 1 1			·
Static Strength	The ability to exert maximum		4 1 1	4 I I			1	- 	50		56		60		t	53	í ! !	J 			
C C	muscle force to lift, push, pull, or								1 1 1								1				1
	carry objects.			1 1 1					1 1 1								1	1 1 1		ļ	·
Trunk Strength	The ability to use your abdominal	56	1	T]		53	60	56		56			50	1	· T]		53
	and lower back muscles to support							 			1 1 1						1 1 1				
	part of the body repeatedly or			1 1 1					 									- - - - -			J
	continuously over time without		1	1 1 1					 									1 1 1		ļ	
	'giving out' or fatiguing.			 				, , , ,									, , , ,				
Stamina	The ability to exert yourself							 	, , ,		1 1 1		50				1 1 1				50
	physically over long periods of time			1 1 1					 									1 1 1			1
	without getting winded or out of			1 1 1					 												
	breath.		¦ 					 +) 	{		1 1 •	¦ -{			
Extent Flexibility	The ability to bend, stretch, twist,	63		1 1 1					53				53			66		1 1 1		ļ	1
	or reach with your body, arms,			1 1 1				1 1 1									1				
Cross Dady Favilibrium	and/or legs.			; •											+						
Gross Body Equilibrium	The ability to keep or regain your			1 1 1					50									1 1			•
	body balance or stay upright when			, , ,				1 1 1			1 1 1						1 1 1				
Near Vision	in an unstable position. The ability to see details at close	69	66	72	66	63	66	69	66	66	63	63	63	66	75	66	66	53	63	53	66
ivear vision	range (within a few feet of the	09	00	12	00	05	00	09	00	00	05	03	05	00	15	00	00	. 55	05	55	00
	observer).							1 1 1			1 1 1						1 1				
Far Vision	The ability to see details at a	50	·	53					56		 !	<u>}</u> i	50		50		66	• •		56	56
	distance.	50											20		50		00	1 1 1		50	
Visual Color Discrimination	The ability to match or detect	56		! ! !			+	- + 	69	56	· +		50		50		4 1 1	 ! !			50
	differences between colors,							 			1 1 1						1 1 1				
	including shades of color and		1	1 1 1					1 									1 1 1		ļ	1
	brightness.			1																	
Depth Perception	The ability to judge which of			'				 ! !	50		· · · · · · · · · · · · · · · · · · ·					56	50	-' 			
	several objects is closer or farther			1 1 1					 									1 1 1			1
	away from you, or to judge the			1 1 1					 									1 1 1		ļ	•
	distance between you and an object.			1 1 1					1 1 1												1
Hooring Consistivity	The shility to detect on tell the	66		' ' Ł			+	i 	' 		i 	 		 	 		50	' ' 	+	 	
Hearing Sensitivity	The ability to detect or tell the differences between sounds that	66		1 1 1				1 1 1			1 1 1				{		50				
								 	, , , ,									- - - 			1
Auditory Attention	vary in pitch and loudness. The ability to focus on a single	50		 	<u>}</u>		<u> </u>	ı 4 1	I 		50	<u> </u>			}			 	+		
Auditory Attention	source of sound in the presence of	50		1 1 1					 		50										
	other distracting sounds.			 					 									1 1			ı
Sound Localization	The ability to tell the direction from	50		l 	+			+ +	L		+	<u> </u>			}			J			·
	which a sound originated.	50		1 1 1				1 1												į	
Speech Recognition	The ability to identify and	50	56	56	63	72	60	1	53	66	72	60	60	63	66	53	63	69	56	66	69
	understand the speech of another	- *		- ~ 														 			
	person.							- 													_
Speech Clarity	The ability to speak clearly so	50	53	60	63	75	60	Υ Ι Ι	53	60	78	53	56	66	60	56	66	72	56	69	69
-	others can understand you.	l I	1	1			{		1		1				}		Į	1	1		