

Job Ready/Pathway Assessments - National Averages
Secondary
January 1, 2017

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
1437	21st Century Skills for Workplace Success	Written	58	72.9	1	Reading Skills	62.6
					2	Math Skills	74.0
					3	Writing Skills	76.8
					4	Speaking and Listening Skills	77.2
					5	Computer Applications and Digital Media	74.7
					6	Reasoning, Problem-Solving, and Decision Making	70.0
					7	Understanding the "Big Picture"	65.0
					8	Work Ethics	62.1
					9	Positive Attitude	78.6
					10	Independence and Initiative	73.6
					11	Self-Presentation	78.7
					12	Attendance	79.7
					13	Collaboration	76.4
					14	Personal Health and Wellness	85.3
					15	Entrepreneurship	72.1
					16	Personal Finance	55.6
4900 Accounting-Advanced							
4900	Accounting-Advanced	Written	10,579	45.6	1	Journalizing	49.1
					2	Posting	46.1
					3	Payroll Preparation	42.3
					4	Cash and Banking Procedures	48.2
					5	Merchandise Inventory	42.0
					6	Completion of Accounting Cycle	43.4
					7	Identification and Application of Source Data	53.0
					8	Mechanical and Electrical Accounting Devices	60.1
					9	Security	40.4
					10	Basic Accounting Knowledge	45.6
					11	Advanced Accounting Principles	42.7
Perf	No data available						
4000 Accounting-Basic							
4000	Accounting-Basic	Written	8,491	52.0	1	Journalizing	55.2
					2	Posting	52.4
					3	Payroll Preparation	47.6
					4	Cash and Banking Procedures	55.7
					5	Merchandise Inventory	46.0
					6	Completion of Accounting Cycle	50.2
					7	Identification and Application of Source Data	59.0
					8	Mechanical and Electrical Accounting Devices	67.5
					9	Security	42.8
					10	Basic Accounting Knowledge	54.1

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
4000	Accounting-Basic	Perf	1,597	64.5	1	Identification of Account Balances	70.0
					2	Journal Entries	62.0
					3	Posting Verification	68.6
					4	Banking	61.5
					5	Payroll	72.3
					6	Complete Worksheet	72.7
					7	Financial Statements	53.8
4101	Administrative Assisting	Written	1,783	60.4	1	Computer Applications	64.4
					2	Working in an Office Environment	66.9
					3	Records Management	54.3
					4	Office Procedures	63.0
					5	Accounting and Computational Skills	48.0
		Perf	1,219	81.3	1	Business Writing - Memo Preparation	85.2
					2	Document Processing	74.7
					3	Preparing a Spreadsheet	82.2
					4	Creating a Chart	84.9
					5	Creating a Flyer	90.0
1205	Administrative Services	Written	30	65.1	1	Business Management Technical Skills	58.3
					2	Administrative Services	56.7
					3	Academic Foundations	60.5
					4	Systems	71.7
					5	Ethics and Legal Responsibilities	73.3
					6	Communications	66.7
					7	Information Technology Applications	65.6
					8	Problem Solving, Crit Thinking, and Decision Making	69.0
					9	Leadership and Teamwork	79.5
					10	Safety, Health, and Environmental	75.0
					11	Employability and Career Development	72.0
4119	Advertising and Design	Written	580	63.6	1	Computer Literacy	64.7
					2	Typography	60.6
					3	Digital Literacy and Application	62.5
					4	Color Theory and Application	70.0
					5	Digital Illustration and Drawing	63.8
					6	Photography	66.2
					7	Production and Printing	55.7
					8	Communication and Career Skills	74.0
					9	Work Environment	61.3
					10	Multimedia	71.4
					11	Digital Image Manipulation	55.1
		Perf	268	89.4	1	Design: Computer Comp-Prepare and Print Files	87.4
2	Layout: Redesign				92.9		

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
1229	Agricultural Biotechnology	Written	160	66.3	1	Technical Skills	54.9
					2	Academic Foundations	66.1
					3	Systems	77.0
					4	Ethics and Legal Responsibilities	68.9
					5	Communications	66.5
					6	Information Technology Applications	64.3
					7	Problem Solving, Crit Thinking, and Decision-Making	72.3
					8	Leadership and Teamwork	79.1
					9	Safety, Health, and Environmental	67.5
					10	Employability and Career Development	77.4
					11	Agricultural Biotechnology	60.6
2102	Agriculture Mechanics	Written	8,769	49.6	1	Safety	53.6
					2	Welding and Mechanics	44.7
					3	Power and Machinery	53.3
					4	Electrical Power and Process	48.1
					5	Agricultural Structures	50.5
					6	Agribusiness	55.5
					7	Environmental and Natural Resource Systems	39.3
					8	Careers in Agriculture Mechanics	44.4
		Perf	986	85.3	1	Horizontal Square Groove Butt Weld - SMAW	84.4
					2	Oxyacetylene Cutting	84.0
					3	Troubleshoot and Diagnose a Gas Engine	89.9
					4	Install a Switch to Control a Light	88.9
					5	Mark a Common Rafter	74.4
					6	Set Up and Instrument Leveling of the Farm Level	91.0
1227	Animal Systems	Written	527	66.1	1	Technical Skills	59.2
					2	Academic Foundations	64.8
					3	Systems	75.6
					4	Ethics and Legal Responsibilities	70.0
					5	Communication	64.3
					6	Information Technology Applications	62.5
					7	Problem Solving, Crit Thinking, and Decision-Making	68.9
					8	Leadership and Teamwork	74.6
					9	Safety, Health, and Environmental	66.8
					10	Employability and Career Development	73.3
					11	Animal Science	63.7

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
3018	Apparel and Textiles Prod and Merchandising	Written	2,730	58.3	1	Garment Construction	58.3
					2	Finished Garment Alterations	55.6
					3	Textiles	62.0
					4	Applied Mathematics	49.9
					5	Design and Patternmaking	54.9
					6	Industrial and Domestic Apparel Manufacturing	67.7
					7	Apparel Technology	56.0
					8	Apparel and Textile Merchandising	56.0
					9	Career Opportunities	61.4
		Perf	1,462	85.7	1	Patternmaking	84.8
					2	Invisible Zipper Insertion	82.2
					3	Seam Samples	86.4
					4	Bodice Construction	85.1
					5	Layout, Cut, and Construct Straight Legged Pants	88.5
		4004	Architectural Drafting	Written	3,957	50.9	1
2	Geometric Construction						58.7
3	Applied Mathematics						55.8
4	Drawing Techniques - Supplementary Views						43.9
5	Planning						51.7
6	Architectural Drawing Types						48.5
7	Site Plans						53.5
8	Structural Drawings						45.4
9	Mechanical and Electrical Systems						42.6
10	Supplemental Drafting Activities						53.1
11	Specifications						47.1
12	Sustainable Architecture and Design						47.4
Perf	984			73.8	1	Architectural Symbols and Abbreviations	71.9
					2	Elevation	70.2
					3	Kitchen and Bath Floor Plan	77.1
3005	Audio-Visual Communications	Written	1410	52.3	1	Photography	48.8
					2	Computer Based Technology	51.3
					3	Audio and Video Production	54.1
					4	Creative Development	50.5
					5	Visual Design	50.0
					6	Project Management	53.8
					7	Equip Operation, Maintenance, and Troubleshooting	49.2
					8	Network Technology	53.4
					9	Related Information	68.2
		Perf	526	91.7	1	Audio-Visual Editing	91.6
					2	Videography	94.6
					3	Engineering and Troubleshooting	88.9

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
4008	Automotive Technician-Advanced	Written	472	47.5	1	Customer Relations and Shop Procedures	63.1
					2	Engine Repair	49.7
					3	Automatic Transmission/Transaxle	44.5
					4	Manual Drive Train and Axles	44.6
					5	Suspension and Steering	49.1
					6	Brakes	48.4
					7	Electrical/Electronic Systems	46.0
					8	Heating and Air Conditioning	38.1
					9	Engine Performance	43.0
		Perf	1,249	90.2	1	Identification of Parts	85.1
					2	Disc Brake Assembly Service	89.8
					3	Tire Service and Balance	96.6
					4	Cylinder Head Service	90.1
					5	Perform Fuel System Pressure Test	92.3
					6	Windshield Washer Circuit Inoperative	88.9
					7	Test & Diagnose Battery, Starting, & Charging Sys	86.0
					8	Test Electronic Engine Control Components	95.4
4309	Automotive Technician-Core				Written	755	48.0
		2	Automatic Transmission and Transaxle	47.2			
		3	Manual Drive Train and Axles	40.8			
		4	Suspension and Steering	54.0			
		5	Brakes	52.6			
		6	Electrical and Electronic Systems	50.2			
		7	Heating and Air Conditioning	41.6			
		8	Engine Performance	44.1			
		9	Customer Relations and Shop Procedures	54.8			
		Perf	536	86.5	1	Brakes: Disc Brake Assembly Service	85.2
2	Elec/Elect Sys: Test & Diag Batt, Starting, & Chrg Sys				82.1		
3	Engine Perf: Test Electronic Engine Control Comp				90.0		
4	Suspension and Steering: Tire Service and Balance				93.7		
1096	Banking and Related Services	Written	296	65.9	1	Cluster Technical Skills - Finance	59.1
					2	Technical Skills - Banking and Related Services	56.1
					3	Academic Foundations	61.8
					4	Systems	65.9
					5	Ethics and Legal Responsibilities	64.4
					6	Communication	74.4
					7	Information Technology Applications	58.8
					8	Problem Solving, Crit Thinking, & Decision Making	73.6
					9	Leadership and Teamwork	79.8
					10	Safety, Health and Environmental	70.8
					11	Employability and Career Development	89.4

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
4075	Biotechnology	Written	117	66.6	1	Work Habits	81.2
					2	Knowledge of Biotechnology	64.5
					3	Laboratory Knowledge and Skills	63.1
					4	Ethics	80.4
					5	Safety in the Biotechnology Laboratory	76.4
					6	Working in a Highly Regulated Environment	74.6
					7	Appropriate Use of Equipment and Instrumentation	60.7
		Perf	80	90.1	1	Colony Isolation and Streaking Bacteria	92.1
					2	Using Volumetric Equipment: Using Micropipettes	96.0
					3	Using Volumetric Equipment: Serological Pipettes	87.5
					4	Making A Molar Solution	88.8
					5	Making A Dilution and Using a Spectrophotometer	87.1
					6	Generating and Utilizing a Standard Curve	85.0
		1106	Broadcasting and Journalism	Written	432	68.6	1
2	Broadcasting and Journalism						55.3
3	Academic Foundations						71.8
4	Systems						79.3
5	Ethics and Legal Responsibilities						76.2
6	Communication						83.6
7	Information Technology Applications						49.9
8	Problem Solving, Crit Thinking, & Decision-Making						55.2
9	Leadership and Teamwork						83.9
10	Safety, Health, and Environmental						76.9
11	Employability and Career Development						62.8
4011	Building Construction Occupations (New test released 9/1/2016)	No data available					
4012	Building Trades Maintenance	Written	306	49.4	1	Safety	63.3
					2	Tools and Materials	49.1
					3	Carpentry	48.5
					4	Painting and Wall Covering	49.4
					5	Masonry	47.9
					6	Electrical	41.7
					7	Plumbing	45.8
					8	General Maintenance	42.3
					9	Grounds and Equipment Maintenance	55.9
					10	HVAC (Heating, Ventilation, and Air Conditioning)	54.7
		Perf	221	85.0	1	Carpentry: Construct Frame	88.1
			2	Plumbing: Sweat Piping	85.0		
			3	Electricity: Rough Wiring	85.2		
			4	Drywall	82.1		
			5	Electricity: Finish Wiring	81.7		

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
1095	Business Financial Management	Written	2,366	63.7	1	Cluster Technical Skills - Finance	59.5
					2	Technical Skills - Business Financial Management	51.6
					3	Academic Foundations	59.8
					4	Systems	65.3
					5	Ethics and Legal Responsibilities	62.2
					6	Communication	72.0
					7	Information Technology Applications	59.2
					8	Problem Solving, Crit Thinking, and Decision Making	72.1
					9	Leadership and Teamwork	79.5
					10	Safety, Health and Environmental	64.4
					11	Employability and Career Development	88.5
4013	Business Information Processing	Written	1,344	62.0	1	Computer Concepts and Applications	62.1
					2	Internet Operations	68.5
					3	Computer Operations	58.2
					4	Reporting and Data Management	62.0
					5	Business Software Applications	68.0
					6	Business Math	47.0
					7	Communications	63.1
					8	Office Environment Safety	65.3
		Perf	438	88.9	1	File Management	95.2
					2	Spreadsheet	80.3
					3	Word Processing: Create and Format	91.6
					4	Word Processing: Table Creation	94.6
					5	Presentations	95.2
3014	Cabinetmaking	Written	1,170	49.6	1	Safety	61.1
					2	Design and Layout	46.8
					3	Estimating and Measuring	48.8
					4	Hand and Portable Power Tools	51.0
					5	Stationary Saws	48.3
					6	Boring Machines	51.4
					7	Milling	44.1
					8	Assembly	49.9
					9	Finishing	51.3
					10	Installation	40.3
		Perf	515	83.9	1	Develop a Cut List	85.2
2	Layout, Cut, and Assemble Face Frame				83.6		
3	Layout and Assemble one Drawer				83.2		

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
4973	CAD	Written	3,025	59.1	1	Identify Hardware and Operating Systems	64.7
					2	Use Hardware and Operating Systems	73.0
					3	Interpret and Read Blueprints	60.7
					4	Create and Manipulate Mechanical Drawing Info	56.6
					5	Draw and Design Assemblies	66.2
					6	Use 3-D Modeling	50.9
		Perf	1,375	80.7	1	Create a 2-D Orthographic Drawing with section view	78.3
					2	Create a 3-D Solid Model	88.4
					3	Create two parts to be mated and mate the parts	77.6
		3073	CAD-CAM	Written	137	49.9	1
2	Using Hardware and Operating Systems						70.4
3	Interpreting and Reading Blueprints						44.4
4	Creating & Manipulating Mechanical Drawing Info						53.7
5	Drawing and Designing Assemblies						54.1
6	Using 3-D Modeling						50.5
7	Machining Fundamentals						51.2
8	CNC Operation						39.4
9	CNC Programming Preparation						47.0
10	CNC Programming Using a CAM System						36.5
Perf	85			69.0	1	Create a 2-D Ortho Draw on CAD with a Section View	74.8
					2	Create a 3-D Solid Model	77.1
					3	Create Two Parts to be Mated and Mate the Parts	64.6
					4	Manufacture a Part from an Existing Drawing	58.2
1100	Career Skills	Written	1,251	51.0	1	Communications	53.5
					2	Problem Solving and Critical Thinking	38.2
					3	Information Technology Applications	62.0
					4	Systems	47.5
					5	Safety, Health and Environment	50.1
					6	Leadership, Management and Teamwork	61.9
					7	Ethics and/or Legal Responsibilities	56.5
					8	Employability and/or Career Development	45.5
4115	Carpentry	Written	4,390	55.0	1	Safety	68.2
					2	Tools and Accessories	67.1
					3	Blueprint Reading and Estimation Skills	49.5
					4	Foundations, Forms, and Concrete	49.4
					5	Rough Framing	56.4
					6	Exterior Finish	55.5
					7	Interior Systems Installation	49.9
					8	Interior Finish	42.6
					9	Carpentry-Related Mathematics	56.1

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4115	Carpentry	Perf	2,305	88.5	1	Tool and Material Identification	93.6		
					2	Square Layout	90.2		
					3	Est a Starting Course for Vinyl Siding Using a Bldr's Lev	92.7		
					4	Blueprint Reading/Sole Plate Layout	81.6		
					5	Rafter Layout	86.9		
					6	Stairway Stringer	87.6		
					7	Interior Frame	89.2		
4106	Collision Repair	Written	310	54.8	1	Safety	68.1		
					2	Business Fundamentals	62.6		
					3	MIG/GMAW and STRSW	44.7		
					4	Structural	50.9		
					5	Non-Structural	53.5		
					6	Mechanical and Electrical Systems	54.5		
		Perf	267	90.2	1	Welding	90.9		
					2	Sheet Metal Repair	90.1		
					3	Vehicle Measurement	88.5		
		3183	Collision Repair and Refinishing Technology	Written	1,763	58.6	1	Safety	67.8
							2	Business Fundamentals	65.2
							3	MIG/GMAW and STRSW	49.8
							4	Structural	54.6
5	Non-Structural						58.5		
6	Mechanical and Electrical Systems						56.8		
7	Painting and Refinishing						61.0		
Perf	1,394			90.3	1	Welding	89.3		
					2	Sheet Metal Repair	90.5		
					3	Door Striker Adjustment	96.2		
					4	Refinishing	88.0		
4020	Commercial Foods			Written	2,643	63.3	1	Safety	80.8
							2	Sanitation	68.7
		3	Culinary Career Overview				69.5		
		4	Culinary Techniques				63.7		
		5	Recipes and Culinary Math				46.0		
		6	Purchasing and Management Skills				57.2		
		7	Menu Design and Nutrition				55.3		
		8	Customer and Table Service				62.6		
		9	Culinary Equipment				67.5		
		Perf	2,489	91.8	1	Ident. of Hand Tools, Herbs, Spices, & Flavorings	91.8		
					2	Knife skills	92.9		
					3	Cooking skills	91.6		

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg	
4514	Computer Networking Fundamentals (New test released 9/1/2016)	No data available						
4023	Computer Programming	Written	2,946	54.5	1	Analyze Programming Problems & Flowchart Solutions	53.8	
					2	Design Program Solutions	56.7	
					3	Code Programs	53.0	
					4	Test Programs	50.7	
					5	Maintain Programs	54.0	
					6	Complete User Documentation and Technical Writing	53.1	
					7	General Information and Concepts	57.8	
		Perf	669	71.0	1	Write a program	63.6	
					2	Design Solution Logic	82.3	
4515	Computer Repair Technology	Written	578	59.7	1	Safety	72.1	
					2	Installing, Configuring, and Upgrading	56.8	
					3	Diagnosing and Troubleshooting	58.8	
					4	Preventive Maintenance	62.9	
					5	System Boards, Storage, Processors, and Memory	54.0	
					6	Input-Output (I/O) Devices	66.7	
					7	Printing	56.6	
					8	Basic Networking	52.1	
					9	Security	72.3	
					10	Customer Support and Ethics	63.4	
		Perf	274	87.1	1	Device Identification	74.9	
					2	Installing New Hardware/Troubleshooting	92.2	
					3	Network Connectivity	88.4	
4122	Computer Technology	Written	377	60.3	1	Professional Standards, Ethics, & Business Practices	72.2	
					2	General Computer Knowledge and Concepts	57.2	
					3	PC (Personal Computer) Hardware Knowledge	53.3	
					4	PC (Personal Computer) Software Knowledge	67.1	
					5	Networking and Data Communications	54.3	
					6	Security	62.6	
		Perf	79	90.5	1	File Management Using Windows GUI	92.0	
					2	Word Processing Applications	88.8	
					3	Spreadsheet Applications	83.2	
					4	Network Connectivity	93.7	

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
1128	Construction	Written	235	57.6	1	Technical Skills	41.0
					2	Academic Foundations	62.2
					3	Systems	46.0
					4	Ethics and Legal Responsibilities	44.8
					5	Communication	56.2
					6	Information Technology	45.7
					7	Problem Solving, Crit Thinking, and Decision Making	66.7
					8	Leadership and Teamwork	68.2
					9	Safety, Health, and Environment	74.6
					10	Employability and Career Development	71.9
					11	Construction	56.8
4025	Construction Masonry-Block	Written	195	58.2	1	Safety	68.0
					2	Craft Knowledge	67.5
					3	Hand and Power Tools	72.2
					4	Materials	63.1
					5	Blueprints and Specifications	57.1
					6	Project Layout	46.6
					7	Block	57.0
					8	Flashing, Weeps, and Insulation	50.9
					9	Math and Measurements	45.9
					10	Masonry Structure Maintenance	43.4
					11	Professionalism	77.3
		Perf	144	86.1	1	Job Layout	91.4
					2	Constr a Block Wall/Pier in Stretcher/Running Bond	85.1
					3	Project Jointing	81.7
4125	Construction Masonry-Brick	Written	432	54.7	1	Safety	71.3
					2	Craft Knowledge	68.4
					3	Hand and Power Tools	63.7
					4	Materials	58.0
					5	Blueprints and Specifications	54.9
					6	Project Layout	43.5
					7	Brick	51.8
					8	Fireplaces and Chimneys	52.2
					9	Flashing, Weeps, and Insulation	43.5
					10	Math and Measurements	42.6
					11	Masonry Structure Maintenance	43.3
		12	Professionalism	80.1			
		Perf	100	81.8	1	Job Layout	90.5
					2	Constr a Brick Wall/Pier in Stretcher/Running Bond	81.4
			3	Project Jointing	73.1		

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg		
4082	Cosmetology	Written	1,832	65.7	1	Safety and Sanitation	71.6		
					2	Scientific Concepts	61.4		
					3	Salon-Related Business Skills	78.8		
					4	Physical Services	66.5		
					5	Chemical Services	59.2		
					6	Hair Designing	60.1		
		Perf	90	94.9	1	90-Degree Haircut	92.6		
					2	Blow Dry, Curl, and Press Hair	94.6		
					3	Chemical Applications	95.4		
					4	Manicure	94.9		
					5	Facial	95.8		
		4181	Criminal Justice	Written	185	63.7	1	Crime Scene Management	63.4
							2	Use of Force	71.8
3	Criminal Law and Procedures						63.2		
4	Court System						59.8		
5	Health and Safety						57.8		
6	Police Concepts and Skills						65.5		
7	Corrections						58.2		
8	Communication						65.6		
9	Security: National, International, and Private						60.2		
10	Understand and Work with Special Populations						63.0		
Perf	No data available								
1890	Criminal Justice Advanced	Written	308	56.2	1	Criminal Justice Systems	56.0		
					2	Criminal Justice Procedures	64.7		
					3	Crime Scene Investigation and Evidence Handling	58.1		
					4	Interview and Interrogation	54.7		
					5	Criminal Law and Courtroom Procedures	51.9		
					6	Issues and Ethics in Criminal Justice	54.7		

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg		
4236	Culinary Arts Level 1 Prep Cook	Written	6,635	61.0	1	Recipes	62.0		
					2	Knife Skills	60.5		
					3	Large and Small Equipment	58.1		
					4	Sanitation and Safety	71.9		
					5	Cold Food Preparation	65.5		
					6	Fruits, Vegetables, and Starches	52.3		
					7	Bakery Products	50.5		
					8	Stocks, Sauces, and Hot Soups	52.2		
					9	Meats, Poultry, Fish and Seafood	63.7		
					10	Breakfast Foods	63.5		
					11	Dairy Products and Alternatives	58.4		
					12	Receiving and Storage	57.9		
					13	Nutritional Values	65.2		
					14	Employability Skills	65.0		
		Perf	1,827	88.0	1	Comprehensive Skills	89.5		
					2	Identification of Kitchen Equipment	87.7		
					3	Identification of herbs, spices, fruits, and vegetables	81.0		
					4	Knife sharpening: stone and steel	87.8		
					5	Mise En Place	86.1		
					6	Prepare Chef Salad with Vinaigrette Dressing	89.3		
					7	Prepare Cheese Omelet	89.0		
		4336	Culinary Arts Level 2 Cook	Written	11,291	65.8	1	Recipes	69.0
							2	Knife Skills	66.4
							3	Large and Small Equipment	66.4
							4	Sanitation and Safety	79.1
5	Cold Food Preparation						68.9		
6	Fruits, Vegetables, and Starches						59.2		
7	Bakery Products						56.0		
8	Stocks, Sauces, and Hot Soups						58.9		
9	Meats, Poultry, Fish and Seafood						65.9		
10	Breakfast Foods						68.0		
11	Dairy Products and Alternatives						62.3		
12	Receiving and Storage						64.4		
13	Nutritional Values						70.6		
14	Management and Employability Skills						62.7		
15	Customer Service						68.7		
Perf	7,137			88.0	1	Comprehensive Skills	91.3		
					2	Prepare Chicken Florentine with Tomato Concasse	87.9		
					3	Prepare Rice Pilaf	88.3		
					4	Prepare Steamed Green vegetables	87.2		
					5	Prepare Apple Crostata with Crème Anglaise	86.0		

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
4126	Dental Assisting	Written	1,598	70.1	1	Introduction to the Dental Assisting Profession	74.4
					2	Communication Skills	80.5
					3	Infection Control and Hazard Management	68.4
					4	Clinical Procedures	69.7
					5	Radiological and Digital Imaging Procedures	69.1
					6	Clerical Functions	72.1
					7	Dental Sciences	64.3
		Perf	929	94.2	1	Prepare Instruments for Autoclaving	96.9
					2	Assemble Equipment to Expose Radiographic Film	92.5
					3	Mount Full Series Radiographs	91.7
					4	Assemble and Disassemble Aspirating Syringe	96.3
					5	Take a Single Mandibular Alginate Impression	92.6
					6	Prepare Class III (Anterior) Composite Instru Tray	93.2
		1127	Design and Pre-Construction	Written	75	72.5	1
2	Academic Foundations						75.9
3	Systems						68.0
4	Ethics and Legal Responsibilities						58.9
5	Communication						66.0
6	Information Technology						66.1
7	Problem Solving, Crit Thinking, and Decision Making						82.7
8	Leadership and Teamwork						84.2
9	Safety, Health, and Environment						83.2
10	Employability and Career Development						88.4
11	Design and Pre-Construction						65.4
1186	Diagnostic Services	Written	238	77.3	1	General Health Sciences Technical Skills	80.1
					2	Academic Foundations	84.7
					3	Systems	82.4
					4	Ethics and Legal Responsibilities	69.7
					5	Communication	71.5
					6	Information Technology	82.1
					7	Problem Solving, Crit Thinking, and Decision Making	77.1
					8	Leadership and Teamwork	89.7
					9	Safety, Health, and Environment	68.0
					10	Employability and Career Development	89.7
					11	Diagnostic Services	67.4

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
4127	Diesel Technology	Written	1,044	60.2	1	Safety	74.4
					2	Shop Practices, Tools, and Equipment	63.2
					3	Diesel Engines	64.1
					4	Suspension and Steering	61.9
					5	Brakes	49.8
					6	Electrical and Electronic Systems	60.4
					7	Drivetrains	56.2
					8	Preventive Maintenance	54.7
		Perf	761	93.4	1	Cylinder Liner Installation	90.5
					2	Perform a Wheel Bearing Adj & Brake Stroke Measurement	94.6
					3	Check and Adjust Rocker Lever Clearance	94.1
					4	Perform a Coolant System Inspection	94.8
					5	Electrical Testing	93.4
		1236	Early Childhood Development and Services	Written	104	69.4	1
2	Early Childhood Development Services						74.4
3	Academic Foundations						54.8
4	Systems						62.2
5	Ethics and Legal Responsibilities						76.1
6	Communication						75.3
7	Information Technology						66.2
8	Problem Solving, Crit Thinking, and Decision Making						56.6
9	Leadership and Teamwork						67.1
10	Safety, Health, and Environment						77.6
11	Employability and Career Development						76.6
4017	Early Childhood Education and Care-Advanced	Written	1,455	75.1	1	Health and Safety	84.0
					2	Cognitive Development	68.3
					3	Language Development and Communication	77.0
					4	Physical Development	72.2
					5	Social and Emotional Development	75.5
					6	Community and Family Relationships	82.9
					7	Observation, Documentation, and Assessment	73.4
					8	Professionalism	75.4
					9	Classroom Organization and Arrangement	76.2
					10	Creativity	75.0
					11	Diversity in the Classroom	74.2
					12	Inclusion of Children with Special Needs	66.8
					13	Positive Guidance Techniques and Reinforcement	74.5
		Perf	419	91.2	1	Curriculum Planning	92.6
			2	Small Group Teaching	92.9		
			3	Arrange a Room	87.8		

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
4016	Early Childhood Education and Care-Basic	Written	17,263	75.2	1	Health and Safety	82.0
					2	Cognitive Development	72.3
					3	Language Development and Communication	75.0
					4	Physical Development	69.8
					5	Social and Emotional Development	75.3
					6	Community and Family Relationships	81.3
					7	Observation, Documentation, and Assessment	78.7
					8	Professionalism	72.6
					9	Classroom Organization and Arrangement	80.1
					10	Creativity	75.7
					11	Diversity in the Classroom	73.5
					12	Inclusion of Children with Special Needs	62.6
					13	Positive Guidance Techniques and Reinforcement	73.1
		Perf	3,921	94.0	1	Demonstrate Washing of Caregiver's Hands	97.5
					2	Introduction Activity	94.1
					3	Story Presentation	94.1
					4	Gross Motor Stretching Activity	92.6
					5	Closure Activity	91.3
		1125	Education and Training	Written	208	69.5	1
2	Teaching and Training Technical Skills						70.9
3	Academic Foundations						57.5
4	Systems						71.5
5	Ethics and Legal Responsibilities						67.3
6	Communications						68.8
7	Information Technology Applications						65.0
8	Problem Solving and Critical Thinking						66.3
9	Leadership and Teamwork						80.0
10	Safety, Health, and Environmental						67.6
11	Employability and Career Development						77.0

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
2039	Electric Power and Distribution	Written	44	63.3	1	Maintain a Safe Work Environment	79.5
					2	Perform Job Site Planning Activities	66.7
					3	Climbing Skills	86.1
					4	Pole Framing and Construction Specifications	46.3
					5	Equipment Operation	58.4
					6	Setting and Replacing Poles	67.4
					7	Transformer Installation	74.1
					8	Service Installation and Metering	62.6
					9	Conductor Installation and Repair	62.7
					10	Rubber Gloving Methods	64.6
					11	Underground Distribution	56.2
					12	Substations and Voltage Regulation	58.7
					13	Fusing and System Coordination	55.6
					14	Maintain Line Equipment and Tools	66.4
					15	Maintain Records and Documentation	56.6
					16	Problem Solving and Troubleshooting	67.3
		Perf	43	92.2	1	Hurtman Rescue Using A Handline	87.5
					2	Transformer Connections	78.0
					3	Material and Tool Identification	94.6
					4	Tool Identification and Use	88.7
					5	Knot Tying	96.6
					6	Truck Operation	97.6
					7	Meter Installation	98.1
4130	Electrical Construction Technology	Written	1,695	56.9	1	Intro to the Electrical Construction Tech Career	68.8
					2	OSHA Regulations and Electrical Safety Practices	66.1
					3	Meters, Measurements, Testing	59.9
					4	Ident & Selection of Tools, Materials, & Components	65.9
					5	National Electrical Code (NEC)	54.8
					6	Blueprints, Specifications, and Estimations	65.3
					7	AC Theory, Magnetic Theory, and DC Theory	54.2
					8	Circuit Theorems and Conversions	51.4
					9	Wiring, Circuits, and Installation	54.9
					10	Green and Renewable Technology	51.1
					11	Transformers	48.4
					12	Motors	45.3
		Perf	1,024	89.5	1	Bend Conduit	87.6
			2	Switching a GFCI Receptacle in a Residential Setting	88.3		
			3	Install Two Smoke Alarms in a Commercial Setting	94.2		

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
3029	Electrical Occupations	Written	1,229	56.7	1	Safety	63.2
					2	Wiring Methods	57.1
					3	Tools	82.5
					4	Motors and Motor Controls	51.6
					5	National Electrical Code	60.5
					6	Blueprint Reading	60.8
					7	Applied Mathematics	60.3
					8	Alternating Current (AC)	43.0
					9	Direct Current (DC)	38.0
		Perf	807	90.9	1	Install Cable from Meter Base to Serv Entrance Panel	90.2
					2	Install GFCI Circuit Breaker in Existing 100 AMP Panel	95.2
					3	Wire Lighting Control	90.7
					4	Install Door Chimes	89.7
3034	Electronics	Written	485	51.6	1	Safety	70.9
					2	DC Circuits	57.2
					3	AC Circuits	46.7
					4	Solid State Circuits	44.3
					5	Soldering and De-Soldering	56.2
					6	Use of Equipment	51.4
					7	Digital Theory	55.2
					8	Electronics-Related Mathematics	47.7
		Perf	61	76.6	1	IC Identification	86.7
					2	DC Circuit Construction and Analysis	80.3
					3	Power Supply Construction and Analysis	72.5
					4	De-Soldering and Soldering	88.3
					5	CE Amplifier Construction and Analysis	62.8
4035	Electronics Technology	Written	3,056	49.9	1	Safety Practices	58.9
					2	Fundamental Electrical Principles and Theory	56.2
					3	Digital Electronic Circuits	48.7
					4	Electronic Device Analysis and Applications	44.1
					5	Electronic Testing Equipment	56.9
					6	Direct Current (DC) Circuit Analysis	47.1
					7	Alternate Current (AC) Analysis	41.5
					8	Prototyping and Fabrication Techniques	50.6
					9	Careers in Electronics	53.8
		Perf	1,272	89.8	1	De-Soldering and Soldering	93.4
					2	Power Supply Construction and Circuit Analysis	91.1
					3	Op AMP Construction and Analysis	88.3
					4	Design & Build a Combinational Logic Circuit	86.6

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
1135	Emergency and Fire Management Services	Written	235	65.0	1	General Skills	59.9
					2	Academic Foundations	71.9
					3	Systems	57.1
					4	Ethics and Legal Responsibilities	56.4
					5	Communications	74.4
					6	Information Technology Applications	64.2
					7	Problem Solving, Crit Thinking, and Decision Making	60.9
					8	Leadership and Teamwork	64.3
					9	Safety, Health, and Environment	69.0
					10	Employability and Career Development	62.2
					11	Emergency and Fire Management Services	65.4
1138	Emergency Medical Services	Written	400	65.3	1	General Skills	54.1
					2	Academic Foundations	71.9
					3	Systems	58.9
					4	Ethics and Legal Responsibilities	58.8
					5	Communications	73.8
					6	Information Technology Applications	68.3
					7	Problem Solving, Crit Thinking, and Decision Making	61.1
					8	Leadership and Teamwork	62.4
					9	Safety, Health, and Environment	72.3
					10	Employability and Career Development	66.8
					11	Emergency Medical Services	64.1
1237	Family and Community Services	No data available					
4002	Fashion Merchandising	Written	17	76.6	1	Core Competencies	82.2
					2	Fashion Merchandising Skills	74.4
					3	Customer Service/Sales Skills and Techniques	81.5
					4	Cash Handling Skills	70.6
					5	Stockroom Skills	80.6
					6	Selling Area Skills	80.6
					7	Advertising, Visual Merchandising, Sales Promotion Skills	75.2
					8	Market Research	73.2
					9	Principles of Management	70.9

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg		
1094	Financial and Investment Planning	Written	1,274	61.3	1	Cluster Technical Skills - Finance	56.6		
					2	Technical Skills - Financial and Investment Planning	51.7		
					3	Academic Foundations	53.2		
					4	Systems	64.3		
					5	Ethics and Legal Responsibilities	59.8		
					6	Communication	70.8		
					7	Information Technology Applications	55.6		
					8	Problem Solving, Crit Thinking, & Decision Making	70.2		
					9	Leadership and Teamwork	77.2		
					10	Safety, Health and Environmental	62.3		
					11	Employability and Career Development	86.6		
2120	Financial and Managerial Accounting	No data available							
4049	Floriculture	Written	1,830	59.4	1	Basic Floral Design	65.6		
					2	Intermediate Floral Design	55.8		
					3	Advanced Floral Design	72.6		
					4	Small Floriculture or Floriculture-Greenhouse Bus	61.9		
					5	Plant Science	45.1		
		Perf	541	85.8	1	Isosceles Triangle Arrangement	90.8		
					2	Design a Multi-Flower Corsage	92.7		
					3	Cash Register/Sales	96.2		
					4	Plant Classification	71.8		
4949	Floriculture-Greenhouse	Written	1,457	56.8	1	Basic Floral Design	64.8		
					2	Intermediate Floral Design	54.8		
					3	Advanced Floral Design	72.2		
					4	Small Business	62.8		
					5	Greenhouse Operations	50.1		
					6	Plant Sciences	48.2		
					7	Soil Sciences	47.4		
		Perf	775	85.3	1	Isosceles Triangle Arrangement	86.4		
					2	Design a Multi-Flower Corsage	88.6		
					3	Start/Propagate Geraniums from a Stem Tip Cutting	92.5		
					4	Cash Register/Sales	72.8		
5	Plant Classification				92.8				

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
3037	Forest Products and Processing	Written	2,979	46.6	1	Safety	67.8
					2	Logging, Harvesting	46.7
					3	Tree Identification	52.7
					4	Sawmill Operation	36.3
					5	Diesels and Hydraulics	43.8
					6	Chain Saws	46.1
					7	Silviculture and Forest Management	39.2
					8	Forest Ecology and Protection	47.9
					9	Surveying	46.3
					10	Timber Cruising	38.7
					11	Wildlife	48.3
					12	Business Management and Employability Skills	57.1
		Perf	259	78.4	1	Manually Fell a Tree	92.8
					2	Identify Leaf, Bud, and Bark Specimens	74.1
					3	Grade Hardwood or Pine Lumber	74.0
					4	Scale Hardwood or Pine Logs	73.6
					5	Sharpen and Adjust Chain Saw	94.8
					6	Calculate Acreage	73.0
					7	Plot and Analyze 1/5 Acre	70.1
		0177	Fundamentals of Construction	Written	111	63.2	1
2	Jobsite Safety and Safety Regulations						56.5
3	Personal Protective Equipment						75.4
4	Hazard Analysis						64.4
5	Hand Tools						59.7
6	Power Tools						64.8
Perf	108			89.2	1	Circular Saw	88.3
					2	Drill Holes	91.5
					3	Pneumatic Fasteners	85.1
					4	Job Site Hazards	89.6
1203	General Management	Written	9,154	61.8	1	Business Management Technical Skills	54.3
					2	General Management	62.0
					3	Academic Foundations	61.7
					4	Systems	67.5
					5	Ethics and Legal Responsibilities	64.6
					6	Communications	60.6
					7	Information Technology Applications	64.2
					8	Problem Solving, Crit Thinking, and Decision Making	54.8
					9	Leadership and Teamwork	69.8
					10	Safety, Health, and Environmental	67.8
					11	Employability and Career Development	61.5

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
4242	Graphic Production Technology	Written	1,237	54.7	1	Introduction to Printing	56.5
					2	Electronic Publishing & Printing, Pre-Press, & Output	59.4
					3	Offset Press Operations	45.9
					4	Digital Operations	51.7
					5	Binding, Finishing, and Distribution Processes	51.9
		Perf	965	93.6	1	Design and Pre-Press	93.9
					2	Paper Drill, Shrink Wrap, Package, & Prepare for Pick-up	93.0
4143	Health Assisting	Written	2,605	70.1	1	First Aid and General Safety	76.4
					2	Medical Terminology	68.4
					3	Body Systems	67.6
					4	Observation and Communication	66.0
					5	Documentation & Legal Issues of the Hlth Assist Prof	75.1
					6	Health Assistant Skills	68.0
		Perf	2,025	96.1	1	Hand Washing and Personal Protective Equip (PPE)	98.2
			2	Change a Patient Gown	96.5		
			3	Measure Vital Signs, Height, and Weight	95.2		
			4	Transfer Patient from Bed to Wheelchair	92.0		
1187	Health Informatics	Written	1,210	72.6	1	General Health Sciences Technical Skills	75.6
					2	Academic Foundations	75.3
					3	Systems	76.1
					4	Ethics and Legal Responsibilities	71.4
					5	Communication	66.1
					6	Information Technology	71.5
					7	Problem Solving, Crit Thinking, and Decision Making	69.1
					8	Leadership and Teamwork	86.2
					9	Safety, Health, and Environment	67.6
					10	Employability and Career Development	82.7
					11	Health Informatics	67.3
3064	Heating, Ventilation, Air Cond., and Refrigeration	Written	2,289	53.5	1	Electricity	40.3
					2	Soldering, Brazing, and Welding	56.0
					3	Pipefitting	59.5
					4	Controls	48.5
					5	Installation and Service	48.9
					6	Related Math and Science	57.2
					7	Refrigeration	42.5
					8	Refrigerant Recovery	62.4
					9	General Safety	68.4
					10	Computer Literacy	57.7
					11	Employability Skills	75.3

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
3064	Heating, Ventilation, Air Cond., and Refrigeration	Perf	2,567	90.1	1	Gas Furnace Check and Start-Up	90.4
					2	Recover & Replace Refrigerant in a Refrigeration Syst	89.8
3045	Heating, Ventilation, and Air Conditioning	Written	2,323	50.2	1	Electricity	41.1
					2	Soldering, Brazing, and Welding	55.2
					3	Pipefitting	59.7
					4	Controls	47.2
					5	Installation and Service	44.5
					6	Related Math and Science	55.8
					7	Refrigeration	39.6
					8	Refrigerant Recovery	60.7
					9	General Safety	66.8
					10	Computer Literacy	57.5
					11	Employability Skills	72.6
					12	Air Conditioning	46.4
					13	Heat Pumps and Electric Heat	51.8
					14	Hydronic Systems	49.2
					15	Forced Air, Gas, and Oil Units	53.0
					16	Humidity and Air Movement	32.2
					17	Sheet Metal and Ductwork	37.1
		Perf	1,951	84.6	1	Gas Furnace Check and Start-Up	88.1
					2	Air Conditioning	82.4
3046	Heavy Equipment Maintenance and Repair	Written	715	57.9	1	Maintain and Repair Engine	59.1
					2	Maintain and Repair Power Train	58.2
					3	Maintain and Repair Electrical System	57.9
					4	Maintain and Repair Brake System	51.0
					5	Welding	59.3
					6	Preventive Maintenance	66.2
					7	Maintain and Repair Hydraulic System	48.3
					8	General Shop Practices	62.5
					9	Air Conditioning	53.3
					10	Heavy Equipment Undercarriage	50.4
		Perf	490	90.1	1	Test Cooling System	95.9
					2	Electrical Testing	86.6
					3	Adjust Valve Clearance	89.3
					4	Set Carrier Ring and Pinion Backlash	87.4
					5	Identify Brake Components	88.8
					6	Measure and Adjust Track	93.2
					7	Cut and Weld Steel	86.3

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg			
4048	Home Health Aide	Written	126	69.4	1	First Aid and Basic Emergency Measures	68.5			
					2	Abbreviations, Terminology, and Client Observation	72.0			
					3	Employability Skills	82.5			
					4	Client Care	63.3			
					5	Safety	61.9			
					6	Nutrition and Elimination	65.1			
					7	Positioning	66.9			
					8	Client Transfer	76.9			
					9	Provide Personal Care	72.9			
					10	Home Maintenance Management	76.4			
					11	Child Care	71.6			
					12	Medications	75.5			
					13	Client Rights	70.0			
					Perf	No data available				
4149	Horticulture-Landscaping	Written	2,010	49.7	1	General Knowledge	52.1			
					2	Pest and Disease Management	49.0			
					3	Fundamentals of Irrigation	55.5			
					4	Basic Nursery/Greenhouse Skills	43.7			
					5	Horticulture Business and Retailing	53.8			
					6	Landscape Design	40.1			
					7	Landscape Installation and Construction	46.5			
					8	Landscape and Turf Maintenance	52.0			
					9	Arboriculture	49.4			
					Perf	890	91.0	1	Identify and Control Pests	87.1
								2	Identify Equipment Features	92.0
								3	Plant a Container-Grown Shrub	92.2
								4	Prune a Tree and an Evergreen Shrub	93.4
								5	Stake Out a Site Plan - Entrance Walkway	90.4
3079	Hospitality Management-Food and Beverage	Written	273	59.4	1	Introduction to the Hospitality Industry	60.5			
					2	Guest Relations and Concierge	74.1			
					3	Marketing and Sales	57.1			
					4	Safety and Security	64.1			
					5	Opening and Settling Financial Transactions	48.5			
					6	Travel and Tourism	62.0			
					7	Legal and Ethical Responsibilities	69.2			
					8	Restaurant Management	55.8			
					9	Food and Beverage Service	58.0			

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg		
3079	Hospitality Management-Food and Beverage	Perf	35	92.8	1	Demonstrate Napkin Folding	96.9		
					2	Identify Equipment	98.1		
					3	Perform Table-Side Service	90.0		
					4	Prepare Chicken Cordon Bleu	97.0		
					5	Serve Guests	92.4		
					6	Pricing Menu Items	69.8		
					7	Complete a Banquet Event Order Sheet	95.0		
3080	Hospitality Management-Lodging	Written	518	60.9	1	Introduction to the Hospitality Industry	67.1		
					2	Guest Relations and Concierge	77.4		
					3	Marketing and Sales	61.7		
					4	Safety and Security	60.4		
					5	Opening and Settling Financial Transactions	48.7		
					6	Travel and Tourism	70.1		
					7	Legal and Ethical Responsibilities	72.5		
					8	Housekeeping Management	57.3		
					9	Front Office Procedures	54.0		
		Perf	300	87.1	1	Folio and Form Completion	79.8		
					2	Customer relations role play	88.5		
					3	Pricing Menu Items	91.4		
					4	Complete a Banquet Event Order Contract Form	84.4		
					5	Set up continental breakfast buffet table	94.0		
		1204	Human Resources Management	Written	90	65.0	1	Business Management Technical Skills	55.6
							2	Human Resources Management	64.4
3	Academic Foundations						62.8		
4	Systems						70.6		
5	Ethics and Legal Responsibilities						73.9		
6	Communications						64.0		
7	Information Technology Applications						68.8		
8	Problem Solving, Crit Thinking, and Decision Making						57.8		
9	Leadership and Teamwork						74.1		
10	Safety, Health, and Environmental						68.0		
11	Employability and Career Development						69.8		
2111	HVACR-Installation and Start-up	No data available							

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
2110	HVACR-Service and Repair	Written	33	64.3	1	OSHA Guidelines and General Safety	81.4
					2	Related Math, Building Science, Blueprints, and Tools	66.3
					3	Electricity	63.5
					4	Pipe Fitting, Soldering, and Brazing	73.7
					5	Airflow and Ductwork	51.5
					6	Warm Air Systems	60.6
					7	Hydronic Systems	47.5
					8	Air Conditioning - Residential	67.9
					9	Heat Pumps, Electric Heat	49.7
					10	Refrigeration	53.4
					Perf	No data available	
2050	Industrial Electricity	Written	110	46.4	1	DC Theory	50.7
					2	AC Theory	44.8
					3	Test Equipment	63.6
					4	Electrical Drawings	58.4
					5	General Wiring	37.7
					6	National Electrical Code	40.7
					7	Electrical Controls	45.3
					8	Generators	46.9
					9	Motors	38.0
					10	Transformers	45.5
					11	Variable Frequency Drives (VFDs)	47.9
					12	Programmable Logic Controllers (PLCs)	42.8
					13	Safety	49.2
					Perf	40	90.3
			2	Conduit Bending	85.2		
			3	Wiring a Motor Starter	90.2		
			4	Replacing Ballast in a Fluorescent Fixture	94.6		
2051	Industrial Electronics	Written	1,007	43.9	1	DC Electricity	56.9
					2	AC Circuits	43.1
					3	Test Equipment	40.7
					4	Semiconductors	48.1
					5	Electronic Circuits	41.1
					6	Digital/Micro	38.3
					7	Transducers	43.3
					8	Ladder Logic and Motors	37.7
					9	Safety	52.6
					10	Programmable Logic Controllers	43.5

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg					
2051	Industrial Electronics	Perf	948	74.6	1	Semiconductor Testing	72.4					
					2	Solder/Desoldering Components	77.1					
					3	Meter Usage	71.3					
					4	Circuit Construction	80.8					
					5	Oscilloscope Usage	76.9					
					6	Troubleshooting	74.8					
					7	Gate Substitution	67.4					
2074	Industrial Maintenance Mechanics	Written	105	45.0	1	Machinery and Equipment	52.2					
					2	Tools and Safety	56.7					
					3	Electronics and Electrical Principles	47.7					
					4	Hydraulics and Pneumatics	45.1					
					5	Motors and Motor Controls	33.1					
					6	Mechanism Drives	34.9					
					7	Industrial Robotics Systems	39.9					
					8	Blueprints and Schematics	45.2					
		Perf	29	68.4	1	Connect and Operate a Circuit	69.5					
					2	Assemble a Multiple Shaft Gear Drive System	79.1					
					3	Read and interpret an Industrial Blueprint	49.2					
					4	Troubleshoot an Electrical Control System	95.4					
					1131	Information Support and Services	Written	310	60.7	1	Information Technology Applications	54.9
										2	Academic Foundations	53.4
										3	Systems	63.9
4	Ethics and Legal Responsibilities	69.9										
5	Communication	65.4										
6	Problem Solving, Crit Thinking, and Decision Making	58.7										
7	Leadership and Teamwork	73.5										
8	Safety, Health, and Environment	64.2										
9	Employability and Career Development	57.6										
10	Information Support and Services	57.4										
1132	Interactive Media	Written	740	54.0	1	Information Technology Applications	46.4					
					2	Academic Foundations	45.3					
					3	Systems	59.0					
					4	Ethics and Legal Responsibilities	61.3					
					5	Communication	60.0					
					6	Problem Solving, Crit Thinking, and Decision Making	52.5					
					7	Leadership and Teamwork	62.9					
					8	Safety, Health, and Environment	60.2					
					9	Employability and Career Development	45.8					
					10	Interactive Media	53.4					

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
1032	Interior Decorating and Design	Written	314	56.6	1	Safety and Environmental Issues	62.9
					2	Elements and Principles of Design	65.3
					3	Textiles, Fibers, and Fabrics	50.1
					4	Interior Materials and Products	50.9
					5	Furnishings and Accessories	49.7
					6	Art Periods and Design Styles	42.5
					7	Visual Presentation	54.7
					8	Technical Knowledge	50.1
					9	Retail Operation Procedures	60.9
					10	Marketing Skills	60.6
					11	Housing Issues	58.6
1137	Legal Services	Written	107	57.5	1	General Skills	51.7
					2	Academic Foundations	64.8
					3	Systems	48.9
					4	Ethics and Legal Responsibilities	42.5
					5	Communications	70.1
					6	Information Technology Applications	72.0
					7	Problem Solving, Crit Thinking, and Decision Making	60.5
					8	Leadership and Teamwork	55.3
					9	Safety, Health, and Environmental	53.9
					10	Employability and Career Development	64.0
					11	Legal Services	55.5
1287	Lodging	Written	90	66.4	1	General Hospitality and Tourism Technical Skills	71.1
					2	Academic Foundations	63.9
					3	Systems	74.1
					4	Ethics and Legal Responsibilities	80.2
					5	Communication	70.9
					6	Information Technology	56.5
					7	Problem Solving, Crit Thinking, and Decision Making	52.5
					8	Leadership and Teamwork	76.9
					9	Safety, Health, and Environment	72.9
					10	Employability and Career Development	80.0
					11	Lodging Services	55.6

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
2071	Logistics Tech/Distribution Center Services	Written	528	57.5	1	Operations/Safety and Ergonomics	71.6
					2	Operations/Inventory Management	51.3
					3	Operations/Procurement	51.9
					4	Operations/Receiving	52.9
					5	Operations/Putaway	67.3
					6	Operations/Picking (Order Selection)	47.6
					7	Operations/Packing	58.1
					8	Operations/Shipping	54.5
					9	Operations/Material Handling Equipment	53.1
					10	Operations/Technology	53.0
					11	Customer Relations/Direct Comm with Customers	67.2
					12	Customer Relations/Cust Requirement Analysis	58.9
					13	Logistics/Supply Chain Management	48.8
					14	Logistics/Industry Trends and Current Topics	72.5
		Perf	541	92.2	1	Inventory Control/Cycle Count	93.4
					2	Material Handling Equipment	90.2
					3	Receiving	94.4
					4	Order Fulfillment Process	94.2
					5	Bill of Lading	90.5
		1129	Maintenance Operations	No data available			
2084	Manufacturing Technology	Written	1,476	47.9	1	Manufacturing Math, Science, and Measurement	49.8
					2	Workplace Safety, Health, and Job Skills	60.3
					3	Quality Assurance	45.3
					4	Blueprint Reading	45.4
					5	Manufacturing Fundamentals, Processes, & Materials	43.5
					6	Material Handling	57.5
					7	Industrial Robotics Systems	36.1
					8	Computer Use	52.2
					9	Process Control	49.6
					10	Purchasing and Resource Identification Activities	52.6
					11	Electronics and Hydraulics	38.7
					12	Design Processes	47.3
		Perf	338	77.5	1	Milling Operations	76.2
					2	Assemble A Multiple Shaft Gear Drive System	71.5
			3	Determine Gage Block Combinations	88.9		

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
4038	Mechanical Drafting and Design	Written	859	59.8	1	Prep to Draw: Basic Drawing and Dimensioning Skills	63.0
					2	Applied Mathematics	68.5
					3	Identify Measurements	63.9
					4	Geometric Construction	71.5
					5	Engineering Drawings	52.8
					6	Multiview Drawings	48.0
					7	Section Views	50.6
					8	Auxiliary Views	46.7
					9	Dimensioning Skills	58.2
		Perf	334	84.8	1	Auxiliary Views	81.1
					2	Drawing Completion and Dimensioning	83.6
					3	Pattern Development	87.7
					4	Section Drawing	87.5
2040	Mechatronics-Level 1	Written	193	55.0	1	Introduction to Mechatronics: Safety	66.8
					2	Introduction to Mechatronics: Communication	68.9
					3	Instrumentation and Measurement	53.4
					4	Electrical	48.9
					5	Mechanical	53.6
					6	Hydraulic and Pneumatic Systems	58.4
					7	Computer and Control Systems	46.7
		Perf			No data available		
4355	Medical Assisting (New test released 9/1/2016)	No data available					
1228	Natural Resource Systems	Written	801	65.1	1	Technical Skills	60.3
					2	Academic Foundations	64.6
					3	Systems	75.8
					4	Ethics and Legal Responsibilities	68.0
					5	Communication	63.4
					6	Information Technology Applications	60.1
					7	Problem Solving, Crit Thinking, and Decision-Making	67.5
					8	Leadership and Teamwork	73.8
					9	Safety, Health, and Environmental	67.1
					10	Employability and Career Development	72.1
					11	Natural Resources	60.3

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
1130	Network Systems	Written	337	56.2	1	Information Technology Applications	52.0
					2	Academic Foundations	51.3
					3	Systems	60.2
					4	Ethics and Legal Responsibilities	64.9
					5	Communication	60.4
					6	Problem Solving, Crit Thinking, and Decision Making	51.6
					7	Leadership and Teamwork	66.5
					8	Safety, Health, and Environment	65.8
					9	Employability and Career Development	51.6
					10	Network Systems	50.9
4158	Nursing Assisting	Written	3,439	74.2	1	Basic Nursing Assisting Skills	71.0
					2	Infection Control	67.3
					3	Communication Skills	71.7
					4	Personal Care Skills	79.1
					5	Mental Health and Social Service Needs	80.1
					6	Ethics, Rights, and Legal Responsibilities	79.1
					7	Basic Restorative Devices	73.0
					8	Employability Skills	75.4
		Perf	722	93.9	1	Obtain and Record Standard Vital Signs	91.6
					2	Apply and Remove Personal Protective Equipment	94.0
					3	Demonstrate Wheelchair Assistance	94.6
					4	Make an Occupied Bed	95.6
					5	Provide a Modified Bed Bath for an Adult Female Patient	93.7
1107	Performing Arts	Written	506	70.5	1	Technical Skills	69.9
					2	Performing Arts	66.4
					3	Academic Foundations	69.7
					4	Systems	80.2
					5	Ethics and Legal Responsibilities	76.7
					6	Communication	83.9
					7	Information Technology Applications	51.9
					8	Problem Solving, Crit Thinking & Decision-Making	55.6
					9	Leadership and Teamwork	83.3
					10	Safety, Health, and Environmental	73.6
					11	Employability and Career Development	62.5
1238	Personal Care Services	No data available					

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
4061	Plumbing	Written	1,020	59.0	1	Safety	67.8
					2	Plumbing Math	54.8
					3	General Plumbing Practices	62.9
					4	Joining Pipes and Fittings	61.5
					5	Drainage	55.8
					6	Vent Installation	52.5
					7	Water Supply and Distribution	63.4
					8	Hot Water Systems	58.6
					9	Traps	53.4
					10	Installing Fixtures	55.7
					11	Plumbing Service and Repair	52.7
		Perf	878	89.6	1	Install and Prepare to Leak Test a DWV System	91.0
					2	Install and Prepare to Leak Test a Water Supply System	88.5
4162	Practical Nursing	Written	30	73.6	1	Communication and Employability	82.5
					2	Legal and Ethical Responsibilities	80.7
					3	Anatomy, Physiology, and Pathophysiology	67.8
					4	Patient Care Skills	70.4
					5	Administer Medication	66.6
					6	Infection Control	77.3
					7	Psychological Support	84.6
					8	Supervised Management Functions	67.2
		Perf	No data available				
4152	Precision Machining (New test released 9/1/2016)	No data available					
2475	Pre-Engineering/Engineering Technology	Written	8,810	58.0	1	Overview of Engineering	71.0
					2	Design Process/Problem Solving	68.5
					3	Manufacturing	49.6
					4	Assembly and Fabrication	55.2
					5	Materials	56.3
					6	Communication and Teamwork	66.0
					7	Safety	54.6
					8	Engineering Systems	53.2
		Perf	1,774	88.1	1	Technical Writing	87.7
			2	Oral Presentation	88.7		

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg					
3063	Production Agriculture	Written	4,806	53.3	1	Animal Science	59.6					
					2	Conservation and Sustainable Natural Resources	51.2					
					3	Plant Science	49.0					
					4	Soil Management	49.5					
					5	Agricultural Technology	56.5					
					6	Agri-Business	48.9					
		Perf	2,762	77.6	1	Vehicle Maintenance	93.9					
					2	Calculate Net Worth	64.4					
					3	Determine Genotypes and Phenotypes (Punnet Square)	71.8					
					4	Crop Leaf Identification	64.0					
					5	Administer an Injection	84.4					
					6	Compute Acreage	83.3					
					2480	Protective Services	Written	1,469	65.3	1	Public Safety	64.3
										2	Law Enforcement	67.0
3	Fire Fighting	69.4										
4	Emergency Medical Services	58.3										
5	Career Development	69.2										
6	Homeland Security	58.3										
Perf	943	94.3	1	Street Interview			92.9					
			2	Arrest and Search			91.7					
			3	Complete an Incident Report			92.1					
			4	Chemical Identification			93.9					
			5	Fire Suppression Demonstration			95.4					
			6	Vital Signs			95.5					
			7	Perform CPR on an Adult			97.0					
			8	Patient Assessment			95.4					
1289	Recreation, Amusements, and Attractions	Written	527	75.3	1	General Hospitality and Tourism Technical Skills	81.9					
					2	Academic Foundations	71.8					
					3	Systems	76.8					
					4	Ethics and Legal Responsibilities	81.2					
					5	Communication	76.4					
					6	Information Technology	61.1					
					7	Problem Solving, Crit Thinking, and Decision Making	58.0					
					8	Leadership and Teamwork	76.9					
					9	Safety, Health, and Environment	82.6					
					10	Employability and Career Development	80.6					
					11	Recreation, Amusements, and Attractions	77.6					

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
1286	Restaurants, Food, and Beverage Services	Written	241	69.0	1	General Hospitality and Tourism Technical Skills	76.7
					2	Academic Foundations	66.3
					3	Systems	74.8
					4	Ethics and Legal Responsibilities	76.3
					5	Communication	70.6
					6	Information Technology	55.3
					7	Problem Solving, Crit Thinking, and Decision Making	54.8
					8	Leadership and Teamwork	72.8
					9	Safety, Health, and Environment	79.7
					10	Employability and Career Development	73.7
							11
4010	Retail Commercial Baking	Written	1,049	72.9	1	Safety and Sanitation	78.3
					2	Business and Math Skills	72.3
					3	Ident, Classification, and Properties of Ingredients	64.0
					4	Baking Preparation (Mise en Place)	71.4
					5	Basic Baking	71.4
					6	Product Merchandising	75.8
					7	Purchasing, Receiving, Inventory, and Storage	71.9
					8	Nutrition	71.5
					9	Human Relations and Career Skills	79.3
		Perf	869	90.6	1	Soft Dinner Roll Dough	92.3
					2	Cake Decorating	88.2
					3	Fruit Pie	92.1
					4	Pâte À Choux	90.6
		4153	Retail Merchandising	Written	3,474	69.5	1
2	Communications						76.3
3	Visual Merchandising						77.9
4	Marketing/Merchandising						67.6
5	Technology in Retail Merchandising						70.5
6	Economics						58.5
7	Customer Service, Sales, and Selling						73.1
8	Professionalism in Retail Merchandising						77.1
9	Retail-related Mathematics						64.3
10	Entrepreneurship						58.1
Perf	1,082			85.3	1	Inventory Check-in	78.1
					2	Cash Handling	87.5
					3	Handling Customer Returns	90.4
					4	Product Knowledge and Selling	88.7
					5	Virtual Cash Drawer Closing of a Retail Business	81.8

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
1136	Security and Protective Services	Written	24	50.5	1	General Skills	42.0
					2	Academic Foundations	61.7
					3	Systems	54.2
					4	Ethics and Legal Responsibilities	42.7
					5	Communications	66.7
					6	Information Technology Applications	40.0
					7	Problem Solving, Crit Thinking, and Decision Making	46.4
					8	Leadership and Teamwork	50.8
					9	Safety, Health, and Environment	56.9
					10	Employability and Career Development	56.3
							11
3103	Small Animal Science and Technology	Written	19	53.1	1	Safety and Sanitation	62.7
					2	Animal Care Management	63.2
					3	Grooming	50.5
					4	Genetics and Reproduction	44.7
					5	Management of Small Animal-Related Businesses	67.2
					6	Animal First Aid	48.8
					7	Health and Disease Control	53.2
					8	Nutrition	40.8
						Perf	No data available
4168	Small Engine Technology	Written	61	48.6	1	Safety	57.0
					2	General Shop Practices	51.0
					3	Maintenance	45.0
					4	Lubrication Systems	57.8
					5	Fuel System Fundamentals	50.0
					6	Governor	45.9
					7	Ignition	39.3
					8	Starters and Charging Systems	39.2
					9	Cylinder Head and Valve, Service and Maintenance	47.8
					10	Engine Assembly	51.2
							11
	Perf	No data available					
4054	Technical Drafting	Written	1,305	56.0	1	Basic Drawing Skills	59.6
					2	Geometric Construction	63.3
					3	Applied Mathematics	72.6
					4	Dimensioning Skills	51.8
					5	Multiview Drawing	49.6
					6	Threads and Fasteners	47.9
					7	Manufacturing Processes	45.8
					8	Design Principles	42.1

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
4054	Technical Drafting	Perf	846	81.4	1	Visualization	77.8
					2	Orthographic Drawing	82.0
					3	Development	81.5
					4	Assembly	88.7
3427	Television Production	Written	4,356	59.7	1	Safety	74.5
					2	Pre-Production	59.8
					3	Production	57.9
					4	Post-Production	57.0
					5	Ethics, Communications, and General Field Knowledge	61.9
		Perf	927	86.9	1	Create and Script Video	89.5
					2	Shot Composition	87.2
					3	Edit Shots with the Interview	83.7
		1185	Therapeutic Services	Written	986	73.5	1
	2			Academic Foundations			75.9
	3			Systems			72.0
	4			Ethics and Legal Responsibilities			74.7
	5			Communication			67.3
	6			Information Technology			71.3
	7			Problem Solving, Crit Thinking, and Decision Making			71.2
	8			Leadership and Teamwork			86.8
	9			Safety, Health, and Environment			74.4
	10			Employability and Career Development			83.9
	11			Therapeutic Services			65.4
1288	Travel and Tourism	Written	366	72.1	1	General Hospitality and Tourism Technical Skills	74.6
					2	Academic Foundations	69.9
					3	Systems	77.9
					4	Ethics and Legal Responsibilities	81.6
					5	Communication	73.0
					6	Information Technology	63.1
					7	Problem Solving, Crit Thinking, and Decision Making	57.5
					8	Leadership and Teamwork	80.2
					9	Safety, Health, and Environment	78.1
					10	Employability and Career Development	81.5
					11	Travel and Tourism	68.5

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg			
1108	Visual Arts	Written	267	67.1	1	Technical Skills	65.7			
					2	Visual Arts	60.2			
					3	Academic Foundations	68.8			
					4	Systems	76.9			
					5	Ethics and Legal Responsibilities	68.5			
					6	Communication	82.6			
					7	Information Technology Applications	49.7			
					8	Problem Solving, Crit Thinking, and Decision-Making	57.2			
					9	Leadership and Teamwork	81.0			
					10	Safety, Health, and Environmental	68.4			
					11	Employability and Career Development	60.1			
3425	Visual Comm and Interactive Media Design	Written	24	69.5	1	Safety	80.3			
					2	Career Overview	62.5			
					3	Computer Literacy	67.7			
					4	Interactive Media	69.1			
					5	Visual Literacy	83.3			
					6	Conceptual Design Process	72.8			
					7	Color Theory	65.8			
					8	Typography	66.1			
					9	Materials and Tools	53.7			
					Perf	No data available				
2750	Web Design	Written	1,880	46.8	1	Internet Basics	56.1			
					2	Programming/Markup/Scripting	39.2			
					3	Editors	47.7			
					4	Web Graphics	59.9			
					5	Web Multimedia	40.8			
					6	Web Marketing and Business Management	49.9			
					7	Site Design	40.9			
					8	Administration and Maintenance	44.9			
					Perf	807	78.8	1	Create the Cascading Style Sheet (CSS)	81.5
								2	Create the Template	78.6
			3	Create the Home Page	80.0					
			4	Create the Form Page	73.1					
			5	Create the Content Pages	80.0					

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
4172	Welding	Written	6,275	57.8	1	Safety	68.1
					2	Welding Symbols and Blueprint Reading	64.4
					3	Oxyfuel Cutting (OFC)	52.6
					4	Arc Cutting Process (Carbon Arc and Plasma Arc)	51.5
					5	Physical Characteristics and Mech Properties of Metals	57.7
					6	Weld Fit-Up and Quality	61.2
					7	Shielded Metal Arc Welding (SMAW)	56.6
					8	Gas Metal Arc Welding (GMAW) & Flux Cored Arc Welding	52.2
					9	Gas Tungsten Arc Welding (GTAW)	56.4
		Perf	2,876	83.5	1	Oxyfuel Cutting	84.2
					2	SMAW V-Groove, 3G	83.1
					3	GMAW Tee Joint, 2F	87.3
					4	Aluminum GTAW Tee Joint, 2F	80.3
					5	Stainless Steel GTAW Lap Joint, 2F	81.8
		2150	Wind Turbine Maintenance Technician	Written	30	52.9	1
2	Equipment Operation						68.3
3	Electrical and Mechanical Systems						46.7
4	Hand Tools						47.7
5	Maintain Equipment						55.8
6	Computational, Technical and Writing Skills						56.4
7	Introduction to Careers in Wind Technology						62.7
Perf	No data available						
3033	Workplace Readiness	Written	9,461	52.7	1	Communications	52.6
					2	Problem Solving and Critical Thinking	46.3
					3	Information Technology Applications	57.0
					4	Systems	53.8
					5	Safety, Health, and Environment	44.6
					6	Leadership and Teamwork	59.1
					7	Ethics and/or Legal Responsibilities	64.0
					8	Employability and/or Career Development	53.8