

**NOCTI Assessments - National Averages**  
**Post-Secondary**  
**July 1, 2018**

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	649	80.4	1	Reading Skills	70.0
					2	Math Skills	72.2
					3	Writing Skills	82.0
					4	Speaking and Listening Skills	84.1
					5	Computer Applications and Digital Media	78.8
					6	Reasoning, Problem-Solving, and Decision Making	83.5
					7	Understanding the "Big Picture"	72.8
					8	Work Ethics	76.4
					9	Positive Attitude	89.1
					10	Independence and Initiative	82.6
					11	Self-Presentation	84.5
					12	Attendance	90.7
					13	Collaboration	82.1
					14	Personal Health and Wellness	94.2
					15	Entrepreneurship	78.1
							16
4900	Accounting-Advanced	Written	1,496	70.5	1	Journalizing	72.7
					2	Posting	70.2
					3	Payroll Preparation	67.8
					4	Cash and Banking Procedures	73.1
					5	Merchandise Inventory	67.0
					6	Completion of Accounting Cycle	66.0
					7	Identification and Application of Source Data	77.6
					8	Mechanical and Electrical Accounting Devices	74.7
					9	Security	63.7
					10	Basic Accounting Knowledge	78.5
							11
		Perf	181	68.7	1	Journal Entries	68.2
					2	Posting Verification	61.1
					3	Payroll	84.9
					4	Complete Worksheet	70.4
					5	Financial Statements	63.9
					6	Ratio and Partial Horizontal Analysis	58.7
							7

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
4000	Accounting-Basic	Written	1,662	66.5	1	Journalizing	66.7
					2	Posting	65.7
					3	Payroll Preparation	63.0
					4	Cash and Banking Procedures	73.4
					5	Merchandise Inventory	62.1
					6	Completion of Accounting Cycle	60.9
					7	Identification and Application of Source Data	74.9
					8	Mechanical and Electrical Accounting Devices	76.9
					9	Security	59.1
					10	Basic Accounting Knowledge	74.2
		Perf	56	61.2	1	Identification of Account Balances	66.9
					2	Journal Entries	58.2
					3	Posting Verification	58.4
					4	Banking	71.7
					5	Payroll	68.5
					6	Complete Worksheet	70.1
					7	Financial Statements	49.6
4101	Administrative Assisting	Written	2,215	76.2	1	Computer Applications	78.6
					2	Working in an Office Environment	81.8
					3	Records Management	72.4
					4	Office Procedures	77.4
					5	Accounting and Computational Skills	67.2
		Perf	269	83.0	1	Business Writing - Memo Preparation	85.0
					2	Document Processing	76.2
					3	Preparing a Spreadsheet	83.4
					4	Creating a Chart	89.4
					5	Creating a Flyer	92.3

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
1205	Administrative Services	Written	65	77.3	1	Business Management Technical Skills	67.2
					2	Administrative Services	71.6
					3	Academic Foundations	77.3
					4	Systems	88.2
					5	Ethics and Legal Responsibilities	90.0
					6	Communications	81.8
					7	Information Technology Applications	79.5
					8	Problem Solving, Critical Thinking, and Decision Making	69.4
					9	Leadership and Teamwork	82.2
					10	Safety, Health, and Environmental	88.2
					11	Employability and Career Development	81.5
4119	Advertising and Design	Written	127	69.4	1	Computer Literacy	72.1
					2	Typography	64.9
					3	Digital Literacy and Application	68.5
					4	Color Theory and Application	75.7
					5	Digital Illustration and Drawing	66.1
					6	Photography	69.1
					7	Production and Printing	64.9
					8	Communication and Career Skills	80.1
					9	Work Environment	64.3
					10	Multimedia	74.3
					11	Digital Image Manipulation	63.1
		Perf	56	87.8	1	Design: Computer Comprehensive-Prepare and Print Files	87.5
					2	Layout: Redesign	88.3
1229	Agricultural Biotechnology	Written	33	78.3	1	Technical Skills	67.0
					2	Academic Foundations	77.3
					3	Systems	88.4
					4	Ethics and Legal Responsibilities	85.3
					5	Communications	79.4
					6	Information Technology Applications	77.3
					7	Problem Solving, Critical Thinking, and Decision-Making	84.3
					8	Leadership and Teamwork	93.1
					9	Safety, Health, and Environmental	77.0
					10	Employability and Career Development	93.5
					11	Agricultural Biotechnology	70.0

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
2102	Agriculture Mechanics	Written	42	50.9	1	Safety	55.4
					2	Welding and Mechanics	42.9
					3	Power and Machinery	57.5
					4	Electrical Power and Process	47.2
					5	Agricultural Structures	50.8
					6	Agribusiness	58.4
					7	Environmental and Natural Resource Systems	39.7
					8	Careers in Agriculture Mechanics	45.2
					Perf	No data available	
1227	Animal Systems	Written	79	78.5	1	Technical Skills	67.2
					2	Academic Foundations	76.7
					3	Systems	87.3
					4	Ethics and Legal Responsibilities	83.7
					5	Communication	80.7
					6	Information Technology Applications	80.6
					7	Problem Solving, Critical Thinking, and Decision-Making	84.8
					8	Leadership and Teamwork	89.7
					9	Safety, Health, and Environmental	75.7
					10	Employability and Career Development	90.2
					11	Animal Science	73.8
3018	Apparel & Textiles Prod & Merchandising	Written	22	59.0	1	Garment Construction	55.3
					2	Finished Garment Alterations	56.6
					3	Textiles	59.3
					4	Applied Mathematics	53.0
					5	Design and Patternmaking	44.3
					6	Industrial and Domestic Apparel Manufacturing	73.5
					7	Apparel Technology	70.7
					8	Apparel and Textile Merchandising	58.0
					9	Career Opportunities	62.1
Perf	No data available						

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
4004	Architectural Drafting	Written	230	65.8	1	Preparing To Draw	71.2
					2	Geometric Construction	74.7
					3	Applied Mathematics	65.4
					4	Drawing Techniques - Supplementary Views	57.8
					5	Planning	64.9
					6	Architectural Drawing Types	65.9
					7	Site Plans	67.7
					8	Structural Drawings	66.8
					9	Mechanical and Electrical Systems	59.4
					10	Supplemental Drafting Activities	71.4
					11	Specifications	59.3
					12	Sustainable Architecture and Design	58.8
		Perf	24	40.5	1	Architectural Symbols and Abbreviations	43.2
					2	Elevation	38.4
					3	Kitchen and Bath Floor Plan	41.0
3005	Audio-Visual Communications	Written	41	57.8	1	Photography	54.9
					2	Computer Based Technology	56.2
					3	Audio and Video Production	58.2
					4	Creative Development	57.5
					5	Visual Design	53.1
					6	Project Management	60.2
					7	Equipment Operation, Maintenance, and Troubleshooting	52.6
					8	Network Technology	63.9
					9	Related Information	80.5
		Perf	No data available				
4008	Automotive Technician-Advanced	Written	1,259	67.3	1	Customer Relations and Shop Procedures	73.1
					2	Engine Repair	72.8
					3	Automatic Transmission/Transaxle	71.4
					4	Manual Drive Train and Axles	63.4
					5	Suspension and Steering	68.5
					6	Brakes	67.0
					7	Electrical/Electronic Systems	63.1
					8	Heating and Air Conditioning	61.7
					9	Engine Performance	68.5

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
4008	Automotive Technician-Advanced	Perf	55	83.6	1	Identification of Parts	70.1
					2	Disc Brake Assembly Service	86.9
					3	Tire Service and Balance	88.5
					4	Cylinder Head Service	69.6
					5	Perform Fuel System Pressure Test	89.2
					6	Windshield Washer Circuit Inoperative	86.3
					7	Test & Diagnose Battery, Starting, & Charging Sys	82.8
					8	Test Electronic Engine Control Components	92.0
4309	Automotive Technician-Core	Written	216	65.1	1	Engine Repair	67.4
					2	Automatic Transmission and Transaxle	69.1
					3	Manual Drive Train and Axles	58.5
					4	Suspension and Steering	69.0
					5	Brakes	70.5
					6	Electrical and Electronic Systems	66.5
					7	Heating and Air Conditioning	62.9
					8	Engine Performance	59.9
					9	Customer Relations and Shop Procedures	70.5
		Perf	16	69.7	1	Brakes: Disc Brake Assembly Service	50.5
					2	Electrical/Electronic Systems: Test and Diagnose Battery, Startin	84.6
					3	Engine Performance: Test Electronic Engine Control Component	88.3
					4	Suspension and Steering: Tire Service and Balance	64.6
1096	Banking and Related Services	Written	32	78.1	1	Cluster Technical Skills - Finance	69.9
					2	Technical Skills - Banking and Related Services	76.4
					3	Academic Foundations	69.4
					4	Systems	79.4
					5	Ethics and Legal Responsibilities	81.3
					6	Communication	80.8
					7	Information Technology Applications	80.5
					8	Problem Solving, Critical Thinking, and Decision Making	78.8
					9	Leadership and Teamwork	95.3
					10	Safety, Health and Environmental	80.2
					11	Employability and Career Development	94.5
4075	Biotechnology	No data available					
1106	Broadcasting and Journalism	No data available					

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
4011	Building Construction Occupations	Written	39	61.4	1	Safety and General Knowledge	78.7
					2	Carpentry	66.9
					3	Masonry	41.9
					4	Electrical	33.1
					5	Plumbing	37.9
					6	Energy Efficiency	73.9
					7	Blueprints, Building Layout, and Site Layout	65.0
	Perf	No data available					
4012	Building Trades Maintenance	Written	155	59.6	1	Safety	66.8
					2	Tools and Materials	59.4
					3	Carpentry	57.7
					4	Painting and Wall Covering	56.3
					5	Masonry	59.6
					6	Electrical	52.5
					7	Plumbing	72.7
					8	General Maintenance	49.4
					9	Grounds and Equipment Maintenance	62.0
					10	HVAC (Heating, Ventilation, and Air Conditioning)	60.8
	Perf	91	94.3	1	Carpentry: Construct Frame	89.9	
				2	Plumbing: Sweat Piping	97.1	
				3	Electricity: Rough Wiring	95.2	
				4	Drywall	94.4	
				5	Electricity: Finish Wiring	98.7	
1095	Business Financial Management	Written	23	76.7	1	Cluster Technical Skills - Finance	75.5
					2	Technical Skills - Business Financial Management	70.7
					3	Academic Foundations	72.7
					4	Systems	76.5
					5	Ethics and Legal Responsibilities	77.5
					6	Communication	77.6
					7	Information Technology Applications	72.8
					8	Problem Solving, Critical Thinking, and Decision Making	78.7
					9	Leadership and Teamwork	92.8
					10	Safety, Health and Environmental	79.0
					11	Employability and Career Development	96.7

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
4013	Business Information Processing	Written	332	73.4	1	Computer Concepts and Applications	74.2
					2	Internet Operations	74.1
					3	Computer Operations	73.8
					4	Reporting and Data Management	76.2
					5	Business Software Applications	78.2
					6	Business Math	63.1
					7	Communications	74.1
					8	Office Environment Safety	71.5
		Perf	32	77.3	1	File Management	77.6
					2	Spreadsheet	70.7
					3	Word Processing: Create and Format	80.6
					4	Word Processing: Table Creation	74.9
					5	Presentations	93.1
3014	Cabinetmaking	Written	228	71.5	1	Safety	74.7
					2	Design and Layout	68.6
					3	Estimating and Measuring	69.8
					4	Hand and Portable Power Tools	73.7
					5	Stationary Saws	65.5
					6	Boring Machines	77.0
					7	Milling	68.1
					8	Assembly	73.3
					9	Finishing	76.0
					10	Installation	66.3
		Perf	No data available				
4973	CAD	Written	803	68.1	1	Identify Hardware and Operating Systems	71.3
					2	Use Hardware and Operating Systems	82.0
					3	Interpret and Read Blueprints	68.0
					4	Create and Manipulate Mechanical Drawing Information	66.5
					5	Draw and Design Assemblies	77.4
					6	Use 3-D Modeling	59.5
		Perf	71	86.4	1	Create a 2-D Orthographic Drawing with a section view	84.2
					2	Create a 3-D Solid Model	92.1
					3	Create two parts to be mated and mate the parts	84.6



Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
3073	CAD-CAM	No data available					
1100	Career Skills	Written	169	51.6	1	Communications	53.0
					2	Problem Solving and Critical Thinking	35.4
					3	Information Technology Applications	69.7
					4	Systems	44.8
					5	Safety, Health and Environment	50.1
					6	Leadership, Management and Teamwork	63.3
					7	Ethics and/or Legal Responsibilities	57.7
					8	Employability and/or Career Development	49.0
4215	Carpentry	Written	140	69.8	1	Safety	79.5
					2	Tools and Accessories	84.2
					3	Blueprint Reading and Estimation Skills	67.2
					4	Foundations, Forms, and Concrete	72.7
					5	Rough Framing	71.2
					6	Exterior Finish	60.0
					7	Interior Finish	64.6
					8	Carpentry-Related Mathematics	61.5
		Perf	No data available				
4106	Collision Repair	Written	153	71.7	1	Safety	78.5
					2	Business Fundamentals	80.0
					3	MIG/GMAW and STRSW	59.4
					4	Structural	69.4
					5	Non-Structural	72.9
					6	Mechanical and Electrical Systems	72.7
		Perf	No data available				
3183	Collision Repair and Refinishing Technology	Written	61	65.8	1	Safety	71.4
					2	Business Fundamentals	71.7
					3	MIG/GMAW and STRSW	56.6
					4	Structural	59.8
					5	Non-Structural	64.7
					6	Mechanical and Electrical Systems	69.4
					7	Painting and Refinishing	69.0
		Perf	No data available				

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
4020	Commercial Foods	Written	289	76.0	1	Safety	89.2
					2	Sanitation	80.3
					3	Culinary Career Overview	79.4
					4	Culinary Techniques	78.2
					5	Recipes and Culinary Math	60.7
					6	Purchasing and Management Skills	72.9
					7	Menu Design and Nutrition	67.5
					8	Customer and Table Service	75.0
					9	Culinary Equipment	81.2
		Perf	39	80.1	1	Identification of Hand Tools, Herbs, Spices, and Flavorings	83.9
					2	Knife skills	80.1
					3	Cooking skills	79.5
4514	Computer Networking Fundamentals	Written	318	66.7	1	PC Principles	72.6
					2	Network Connections	76.4
					3	Physical Connection Types	66.8
					4	Network Standards and Devices	62.5
					5	Network Troubleshooting	63.1
					6	Routing and Switching	67.5
					7	Network Terminology	62.2
					8	Network Architecture	66.4
					9	Network Addressing	68.5
					10	Security	68.5
					11	Network Planning and Design	62.1
		Perf	67	93.7	1	Select and Connect Equipment to Set Up a Simple LAN with Two	95.3
			2	Set Up a Workgroup, Create Users, Create Shares, and Install a P	92.6		
4023	Computer Programming	Written	277	68.5	1	Analyze Programming Problems and Flowchart Solutions	64.4
					2	Design Program Solutions	72.4
					3	Code Programs	68.7
					4	Test Programs	62.1
					5	Maintain Programs	68.0
					6	Complete User Documentation and Technical Writing	66.7
					7	General Information and Concepts	73.1
		Perf	23	62.8	1	Write a program	55.7
			2	Design Solution Logic	73.7		

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
4515	Computer Repair Technology	Written	69	71.7	1	Safety	80.9
					2	Installing, Configuring, and Upgrading	63.1
					3	Diagnosing and Troubleshooting	69.1
					4	Preventive Maintenance	79.2
					5	System Boards, Storage, Processors, and Memory	59.0
					6	Input-Output (I/O) Devices	79.1
					7	Printing	71.0
					8	Basic Networking	68.2
					9	Security	91.2
					10	Customer Support and Ethics	74.0
		Perf	15	86.4	1	Device Identification	66.7
					2	Installing New Hardware/Troubleshooting	92.9
					3	Network Connectivity	89.3
4122	Computer Technology	Written	1,103	73.9	1	Professional Standards, Ethics, and Business Practices	82.9
					2	General Computer Knowledge and Concepts	72.3
					3	PC (Personal Computer) Hardware Knowledge	63.4
					4	PC (Personal Computer) Software Knowledge	84.5
					5	Networking and Data Communications	66.3
					6	Security	80.7
		Perf	No data available				
1128	Construction	Written	27	56.0	1	Technical Skills	37.6
					2	Academic Foundations	62.7
					3	Systems	41.4
					4	Ethics and Legal Responsibilities	49.4
					5	Communications	55.6
					6	Information Technology Applications	46.7
					7	Problem Solving, Critical Thinking, and Decision Making	64.0
					8	Leadership and Teamwork	66.7
					9	Safety, Health, and Environmental	73.6
					10	Employability and Career Development	71.6
					11	Construction	51.6
4025	Construction Masonry-Block	No data available					

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
4125	Construction Masonry-Brick	Written	71	71.5	1	Safety	75.5
					2	Craft Knowledge	85.8
					3	Hand and Power Tools	80.0
					4	Materials	78.0
					5	Blueprints and Specifications	67.9
					6	Project Layout	67.5
					7	Brick	72.8
					8	Fireplaces and Chimneys	68.7
					9	Flashing, Weeps, and Insulation	65.1
					10	Math and Measurements	51.2
					11	Masonry Structure Maintenance	64.4
					12	Professionalism	90.6
					Perf	No data available	
4082	Cosmetology	Written	285	68.9	1	Safety and Sanitation	73.3
					2	Scientific Concepts	65.4
					3	Salon-Related Business Skills	82.0
					4	Physical Services	70.5
					5	Chemical Services	63.0
					6	Hair Designing	62.5
					Perf	No data available	
4181	Criminal Justice	Written	284	72.2	1	Crime Scene Management	69.2
					2	Use of Force	76.3
					3	Criminal Law and Procedures	70.6
					4	Court System	69.1
					5	Health and Safety	64.7
					6	Police Concepts and Skills	74.1
					7	Corrections	67.8
					8	Communication	79.0
					9	Security: National, International, and Private	71.9
					10	Understand and Work with Special Populations	70.7
		Perf	50	87.7	1	Comprehensive Skills	93.3
					2	Prepare Chicken Florentine with Tomato Concasse	80.6
					3	Prepare Rice Pilaf	97.5
					4	Prepare Steamed Green vegetables	83.5

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
1890	Criminal Justice Advanced	Written	958	68.8	1	Criminal Justice Systems	69.7
					2	Criminal Justice Procedures	76.9
					3	Crime Scene Investigation and Evidence Handling	68.0
					4	Interview and Interrogation	65.4
					5	Criminal Law and Courtroom Procedures	62.8
					6	Issues and Ethics in Criminal Justice	73.2
4436	Culinary Arts Level 1 Prep Cook	Written	129	80.8	1	Recipes	82.1
					2	Knife Skills	81.1
					3	Large and Small Equipment	78.7
					4	Sanitation and Safety	83.1
					5	Food Preparation	86.4
					6	Fruits, Vegetables, and Starches	69.5
					7	Bakery Products	74.2
					8	Stocks, Sauces, and Hot Soups	82.2
					9	Meats and Poultry	81.0
					10	Fish and Seafood	77.3
					11	Breakfast Foods	88.3
					12	Dairy Products and Alternatives	80.3
					13	Culinary Nutrition	77.4
					14	Culinary Math	76.4
					15	Employability Skills	87.9
		Perf	21	92.1	1	Comprehensive Skills	93.1
					2	Identification of Kitchen Equipment	86.3
					3	Identification of Herbs, Spices, Fruits, and Vegetables	81.0
					4	Knife Sharpening: Stone and Steel	96.2
					5	Mise En Place	90.9
					6	Prepare Chef Salad with Vinaigrette Dressing	94.5
7	Prepare Cheese Omelet				93.5		

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
4536	Culinary Arts Level 2 Cook	Written	63	80.4	1	Recipes	85.4
					2	Knife Skills	79.0
					3	Large and Small Equipment	81.5
					4	Sanitation and Safety	84.6
					5	Food Preparation	84.9
					6	Fruits, Vegetables, and Starches	71.8
					7	Bakery Products	76.6
					8	Stocks, Sauces and Hot Soups	78.9
					9	Meats and Poultry	74.1
					10	Fish and Seafood	83.1
					11	Breakfast Foods	88.4
					12	Dairy Products and Alternatives	78.9
					13	Culinary Nutrition	78.7
					14	Culinary Math	71.7
					15	Employability Skills	84.4
					16	Dining Service	78.6
		Perf	No data available				
4226	Dental Assisting	Written	154	71.5	1	Introduction to the Dental Assisting Profession	82.1
					2	Communication Skills and Business Office Procedures	80.5
					3	Infection Control and Hazard Management	72.2
					4	Clinical Procedures	72.2
					5	Radiological and Digital Imaging Procedures	62.9
					6	Dental Sciences	67.6
		Perf	12	97.7	1	Prepare Instruments for Autoclaving	98.3
					2	Assemble Equipment to Expose Radiographic Film	99.1
					3	Mount Full Series Radiographs	96.4
					4	Assemble and Disassemble Aspirating Syringe	96.9
					5	Take a Single Mandibular Alginate Impression	97.4
					6	Prepare Class III (Anterior) Composite Tray	98.6
		1127	Design and Pre-Construction	No data available			
1386	Diagnostic Services	No data available					

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg		
4127	Diesel Technology	Written	395	65.9	1	Safety	75.8		
					2	Shop Practices, Tools, and Equipment	70.5		
					3	Diesel Engines	70.9		
					4	Suspension and Steering	66.3		
					5	Brakes	53.8		
					6	Electrical and Electronic Systems	65.4		
					7	Drivetrains	62.8		
					8	Preventive Maintenance	59.8		
		Perf	26	97.8	1	Cylinder Liner Installation	98.6		
					2	Perform a Wheel Bearing Adjustment and Brake Stroke Measure	95.1		
					3	Check and Adjust Rocker Lever Clearance	99.0		
					4	Perform a Coolant System Inspection	98.0		
					5	Electrical Testing	98.9		
		1236	Early Childhood Development and Services	No data available					
		4017	Early Childhood Education and Care-Advanced	Written	1,983	84.2	1	Health and Safety	90.3
2	Cognitive Development						75.2		
3	Language Development and Communication						86.1		
4	Physical Development						81.4		
5	Social and Emotional Development						84.9		
6	Community and Family Relationships						93.4		
7	Observation, Documentation, and Assessment						80.5		
8	Professionalism						87.4		
9	Classroom Organization and Arrangement						84.5		
10	Creativity						88.1		
11	Diversity in the Classroom						81.7		
12	Inclusion of Children with Special Needs						74.8		
13	Positive Guidance Techniques and Reinforcement						89.8		
Perf	21			81.6	1	Curriculum Planning	77.1		
					2	Small Group Teaching	85.8		
			3	Arrange a Room	77.7				

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	2,297	83.8	1	Health and Safety	88.7		
					2	Cognitive Development	78.4		
					3	Language Development and Communication	83.9		
					4	Physical Development	78.1		
					5	Social and Emotional Development	83.6		
					6	Community and Family Relationships	90.3		
					7	Observation, Documentation, and Assessment	83.4		
					8	Professionalism	84.5		
					9	Classroom Organization and Arrangement	88.0		
					10	Creativity	86.3		
					11	Diversity in the Classroom	80.0		
					12	Inclusion of Children with Special Needs	73.1		
					13	Positive Guidance Techniques and Reinforcement	85.8		
		Perf	25	86.4	1	Demonstrate Washing of Caregiver's Hands	90.0		
					2	Introduction Activity	87.2		
					3	Story Presentation	87.5		
					4	Gross Motor Stretching Activity	87.8		
					5	Closure Activity	77.1		
		1125	Education and Training	Written	71	74.4	1	General Education Technical Skills	77.5
							2	Teaching and Training Technical Skills	75.1
3	Academic Foundations						63.5		
4	Systems						79.5		
5	Ethics and Legal Responsibilities						72.4		
6	Communications						71.8		
7	Information Technology Applications						73.0		
8	Problem Solving and Critical Thinking						69.3		
9	Leadership and Teamwork						85.2		
10	Safety, Health, and Environmental						70.9		
11	Employability and Career Development						82.3		



Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
2039	Electric Power and Distribution	Written	526	70.5	1	Maintain a Safe Work Environment	81.9
					2	Perform Job Site Planning Activities	71.0
					3	Climbing Skills	86.0
					4	Pole Framing and Construction Specifications	63.1
					5	Equipment Operation	56.5
					6	Setting and Replacing Poles	78.9
					7	Transformer Installation	79.2
					8	Service Installation and Metering	72.9
					9	Conductor Installation and Repair	76.6
					10	Rubber Gloving Methods	70.1
					11	Underground Distribution	60.1
					12	Substations and Voltage Regulation	65.4
					13	Fusing and System Coordination	61.3
					14	Maintain Line Equipment and Tools	73.5
					15	Maintain Records/Documentation	64.3
					16	Problem Solving and Troubleshooting	74.8
		Perf	332	91.8	1	Hurtman Rescue Using A Handline	88.6
					2	Transformer Connections	85.0
					3	Material and Tool Identification	89.0
					4	Tool Identification and Use	94.8
					5	Knot Tying	93.6
					6	Truck Operation	96.8
					7	Meter Installation	88.2
4130	Electrical Construction Technology	Written	1,274	69.8	1	Introduction to the Electrical Construction Technology Career	82.9
					2	OSHA Regulations and Electrical Safety Practices	69.9
					3	Meters, Measurements, Testing	75.1
					4	Identification and Selection of Tools, Materials, and Component	77.5
					5	National Electrical Code (NEC)	70.2
					6	Blueprints, Specifications, and Estimations	73.8
					7	AC Theory, Magnetic Theory, and DC Theory	70.6
					8	Circuit Theorems and Conversions	66.1
					9	Wiring, Circuits, and Installation	65.8
					10	Green and Renewable Technology	59.1
					11	Transformers	67.9
					12	Motors	60.7
		Perf	310	87.0	1	Bend Conduit	86.6
					2	Switching and GFCI Receptacle in a Residential Setting	85.5
			3	Install Two Smoke Alarms in a Commercial Setting	90.1		

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
3029	Electrical Occupations	Written	1,223	69.5	1	Safety	72.7
					2	Wiring Methods	67.2
					3	Tools	92.0
					4	Motors and Motor Controls	75.1
					5	National Electrical Code	70.4
					6	Blueprint Reading	74.8
					7	Applied Mathematics	72.4
					8	Alternating Current (AC)	63.1
					9	Direct Current (DC)	48.7
		Perf	165	90.9	1	Install Cable from Meter Base to Service Entrance Panel	90.7
					2	Install GFCI Circuit Breaker in Existing 100 AMP Panel	94.0
					3	Wire Lighting Control	89.8
					4	Install Door Chimes	91.3
		3034	Electronics	Written	427	65.9	1
2	DC Circuits						72.0
3	AC Circuits						62.7
4	Solid State Circuits						52.3
5	Soldering and De-Soldering						60.0
6	Use of Equipment						68.0
7	Digital Theory						70.6
8	Electronics-Related Mathematics						68.0
Perf	17			73.7	1	IC Identification	90.6
					2	DC Circuit Construction and Analysis	67.7
					3	Power Supply Construction and Analysis	75.7
					4	De-Soldering and Soldering	92.7
					5	CE Amplifier Construction and Analysis	56.3
4035	Electronics Technology			Written	296	59.5	1
		2	Fundamental Electrical Principles and Theory				63.7
		3	Digital Electronic Circuits				63.1
		4	Electronic Device Analysis and Applications				52.7
		5	Electronic Testing Equipment				68.9
		6	Direct Current (DC) Circuit Analysis				59.6
		7	Alternate Current (AC) Analysis				51.2
		8	Prototyping and Fabrication Techniques				51.0
		9	Careers in Electronics				66.7
		Perf	No data available				

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	18	61.9	1	General Skills	55.1
					2	Academic Foundations	65.3
					3	Systems	53.7
					4	Ethics and Legal Responsibilities	53.5
					5	Communications	73.8
					6	Information Technology Applications	76.7
					7	Problem Solving, Critical Thinking, and Decision Making	54.0
					8	Leadership and Teamwork	55.6
					9	Safety, Health, and Environmental	66.2
					10	Employability and Career Development	62.5
						Emergency and Fire Management Services	62.4
1138	Emergency Medical Services	Written	12	68.9	1	General Skills	56.8
					2	Academic Foundations	75.0
					3	Systems	62.5
					4	Ethics and Legal Responsibilities	57.3
					5	Communications	82.1
					6	Information Technology Applications	71.7
					7	Problem Solving, Critical Thinking, and Decision Making	66.7
					8	Leadership and Teamwork	63.3
					9	Safety, Health, and Environmental	72.9
					10	Employability and Career Development	72.9
						Emergency Medical Services Technical Skills	70.1
1237	Family and Community Services	Written	29	82.5	1	General Human Services Technical Skills	86.7
					2	Family and Community Services	90.2
					3	Academic Foundations	64.3
					4	Systems	81.3
					5	Ethics and Legal Responsibilities	90.2
					6	Communications	82.0
					7	Information Technology Applications	72.0
					8	Problem Solving, Critical Thinking, and Decision Making	78.8
					9	Leadership and Teamwork	79.3
					10	Safety, Health, and Environmental	91.8
						Employability and Career Development	89.1
4002	Fashion Merchandising	No data available					
1094	Financial and Investment Planning	No data available					

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
2120	Financial and Managerial Accounting	Written	341	72.2	1	Journalizing	71.4
					2	Cash and Banking Procedures	73.2
					3	Merchandise Inventory	73.4
					4	Financial Statements	65.9
					5	Competence in Technology	92.2
					6	Internal Control	79.7
					7	Basic Accounting Knowledge	79.3
					8	Advanced Accounting Practices	65.7
4049	Floriculture	No data available					
4949	Floriculture-Greenhouse	No data available					
3037	Forest Products and Processing	Written	115	53.3	1	Safety	78.2
					2	Logging, Harvesting	51.0
					3	Tree Identification	63.6
					4	Sawmill Operation	39.3
					5	Diesels and Hydraulics	49.0
					6	Chain Saws	51.1
					7	Silviculture and Forest Management	47.9
					8	Forest Ecology and Protection	56.5
					9	Surveying	51.4
					10	Timber Cruising	42.5
					11	Wildlife	56.1
					12	Business Management and Employability Skills	70.3
			Perf	No data available			
0177	Fundamentals of Construction	No data available					

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
1203	General Management	Written	1,529	77.1	1	Business Management Technical Skills	66.6
					2	General Management	80.8
					3	Academic Foundations	75.3
					4	Systems	84.8
					5	Ethics and Legal Responsibilities	86.2
					6	Communications	73.7
					7	Information Technology Applications	77.7
					8	Problem Solving, Critical Thinking, and Decision Making	67.7
					9	Leadership and Teamwork	81.1
					10	Safety, Health, and Environmental	83.6
					11	Employability and Career Development	81.4
4242	Graphic Production Technology	Written	97	69.9	1	Introduction to Printing	71.2
					2	Electronic Publishing and Printing, Pre-Press, and Output	74.9
					3	Offset Press Operations	61.4
					4	Digital Operations	70.1
					5	Binding, Finishing, and Distribution Processes	64.8
					Perf	No data available	
4143	Health Assisting	Written	17	65.9	1	First Aid and General Safety	73.6
					2	Medical Terminology	65.1
					3	Body Systems	67.4
					4	Observation and Communication	61.2
					5	Documentation and Legal Issues of the Health Assisting Profession	76.1
					6	Health Assistant Skills	59.6
		Perf	16	95.4	1	Hand Washing and Personal Protective Equipment (PPE)	94.4
					2	Change a Patient Gown	98.8
					3	Measure Vital Signs, Height, and Weight	93.4
					4	Transfer Patient from Bed to Wheelchair	94.8

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
1387	Health Informatics	Written	259	81.7	1	General Health Science Technical Skills	75.3
					2	Academic Foundations	72.2
					3	Systems	81.1
					4	Ethics and Legal Responsibilities	92.9
					5	Communications	87.1
					6	Information Technology Applications	89.1
					7	Problem Solving, Critical Thinking, and Decision Making	74.2
					8	Leadership and Teamwork	84.9
					9	Safety, Health, and Environmental	75.3
					10	Employability and Career Development	94.5
					11	Health Informatics	85.2
1141	Healthcare Core	Written	90	77.1	1	Awareness and Sensitivity to Client Needs	79.7
					2	Behaviors for Success in Healthcare Settings	81.4
					3	Communication in Healthcare Settings	81.8
					4	Healthcare Ethics	60.6
					5	Legal Issue in Healthcare	76.3
					6	Healthcare Safety and Standard Precautions	81.0
					7	Respecting Client and Staff Diversity	72.2
3064	Heating, Ventilation, Air Cond., and Refrigeration	Written	1,047	60.7	1	Electricity	49.7
					2	Soldering, Brazing, and Welding	61.1
					3	Pipefitting	64.4
					4	Controls	56.4
					5	Installation and Service	58.4
					6	Related Math and Science	69.1
					7	Refrigeration	45.2
					8	Refrigerant Recovery	69.5
					9	General Safety	72.9
					10	Computer Literacy	66.1
					11	Employability Skills	82.5
		Perf	128	91.9	1	Gas Furnace Check and Start-Up	88.1
					2	Recover/Replace Refrigerant in a Refrig Sys	95.7

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
3045	Heating, Ventilation, and Air Conditioning	Written	894	59.1	1	Electricity	48.5
					2	Soldering, Brazing, and Welding	61.5
					3	Pipefitting	67.5
					4	Controls	55.3
					5	Installation and Service	55.2
					6	Related Math and Science	66.4
					7	Refrigeration	46.1
					8	Refrigerant Recovery	70.2
					9	General Safety	73.2
					10	Computer Literacy	67.2
					11	Employability Skills	82.5
					12	Air Conditioning	57.2
					13	Heat Pumps and Electric Heat	61.3
					14	Hydronic Systems	62.8
					15	Forced Air, Gas, and Oil Units	65.2
					16	Humidity and Air Movement	46.9
					17	Sheet Metal and Ductwork	40.3
		Perf	370	89.4	1	Gas Furnace Check and Start-Up	90.2
					2	Air Conditioning	88.9
3046	Heavy Equipment Maintenance and Repair	Written	345	69.2	1	Maintain and Repair Engine	70.2
					2	Maintain and Repair Power Train	73.0
					3	Maintain and Repair Electrical System	70.8
					4	Maintain and Repair Brake System	60.8
					5	Welding	67.4
					6	Preventive Maintenance	77.1
					7	Maintain and Repair Hydraulic System	65.8
					8	General Shop Practices	73.9
					9	Air Conditioning	73.3
					10	Heavy Equipment Undercarriage	56.2
		Perf	32	82.5	1	Test Cooling System	96.1
					2	Electrical Testing	89.0
					3	Adjust Valve Clearance	96.9
					4	Set Carrier Ring and Pinion Backlash	88.3
					5	Identify Brake Components	95.0
					6	Measure and Adjust Track	59.2
					7	Cut and Weld Steel	55.2

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
4048	Home Health Aide	No data available					
4149	Horticulture-Landscaping	Written	703	73.3	1	General Knowledge	77.0
					2	Pest and Disease Management	74.5
					3	Fundamentals of Irrigation	79.8
					4	Basic Nursery/Greenhouse Skills	69.1
					5	Horticulture Business and Retailing	75.3
					6	Landscape Design	59.0
					7	Landscape Installation and Construction	66.4
					8	Landscape and Turf Maintenance	76.2
					9	Arboriculture	75.8
		Perf	14	41.3	1	Identify and Control Pests	41.7
					2	Identify Equipment Features	41.0
					3	Plant a Container-Grown Shrub	41.3
					4	Prune a Tree and an Evergreen Shrub	41.4
					5	Stake Out a Site Plan - Entrance Walkway	41.1
3079	Hospitality Management-Food and Beverage	Written	170	78.7	1	Introduction to the Hospitality Industry	83.7
					2	Guest Relations and Concierge	89.9
					3	Marketing and Sales	78.0
					4	Safety and Security	80.0
					5	Opening and Settling Financial Transactions	72.3
					6	Travel and Tourism	75.4
					7	Legal and Ethical Responsibilities	84.8
					8	Restaurant Management	76.7
					9	Food and Beverage Service	72.4
		Perf	No data available				
3080	Hospitality Management-Lodging	Written	124	77.6	1	Introduction to the Hospitality Industry	84.0
					2	Guest Relations and Concierge	90.2
					3	Marketing and Sales	78.6
					4	Safety and Security	75.6
					5	Opening and Settling Financial Transactions	69.3
					6	Travel and Tourism	86.7
					7	Legal and Ethical Responsibilities	88.4
					8	Housekeeping Management	71.1
					9	Front Office Procedures	72.7



Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
3080	Hospitality Management-Lodging	Perf	14	86.1	1	Folio and Form Completion	80.0
					2	Customer relations role play	80.7
					3	Pricing Menu Items	98.7
					4	Complete a Banquet Event Order Contract Form	82.5
					5	Set up continental breakfast buffet table	96.6
1204	Human Resources Management	Written	28	81.4	1	Business Management Technical Skills	70.5
					2	Human Resources Management	83.2
					3	Academic Foundations	78.8
					4	Systems	92.9
					5	Ethics and Legal Responsibilities	91.7
					6	Communications	82.1
					7	Information Technology Applications	81.4
					8	Problem Solving, Critical Thinking, and Decision Making	72.4
					9	Leadership and Teamwork	86.7
					10	Safety, Health, and Environmental	88.1
					11	Employability and Career Development	86.4
2111	HVACR-Installation and Start-Up	Written	14	63.5	1	OSHA Guidelines and General Safety	83.5
					2	Related Math, Building Science, Blueprints, and Tools	59.4
					3	Electricity	47.5
					4	Pipe Fitting, Soldering, and Brazing	81.9
					5	Airflow and Ductwork	49.6
					6	Warm Air Systems	62.9
					7	Hydronic Systems	70.4
					8	Air Conditioning - Residential	66.6
					9	Heat Pumps, Electric Heat	51.4
					10	Introduction to Refrigeration	60.7
		Perf	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	38	51.4	1	OSHA Guidelines and General Safety	69.4
					2	Related Math, Building Science, Blueprints, and Tools	53.2
					3	Electricity	53.1
					4	Pipe Fitting, Soldering, and Brazing	61.5
					5	Airflow and Ductwork	44.0
					6	Warm Air Systems	47.7
					7	Hydronic Systems	30.7
					8	Air Conditioning - Residential	47.2
					9	Heat Pumps, Electric Heat	42.1
					10	Refrigeration	44.5
				Perf	No data available		
2050	Industrial Electricity	Written	2,054	55.3	1	DC Theory	60.9
					2	AC Theory	49.7
					3	Test Equipment	77.2
					4	Electrical Drawings	68.2
					5	General Wiring	45.5
					6	National Electrical Code	49.5
					7	Electrical Controls	55.6
					8	Generators	62.2
					9	Motors	47.3
					10	Transformers	53.6
					11	Variable Frequency Drives (VFDs)	55.1
					12	Programmable Logic Controllers (PLCs)	48.0
					13	Safety	57.4
				Perf	28	89.9	1
					2	Conduit Bending	89.5
					3	Wiring a Motor Starter	90.5
					4	Replacing Ballast in a Fluorescent Fixture	90.2

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
2051	Industrial Electronics	Written	813	54.3	1	DC Electricity	58.1
					2	AC Circuits	48.1
					3	Test Equipment	56.0
					4	Semiconductors	48.5
					5	Electronic Circuits	43.1
					6	Digital/Micro	52.6
					7	Transducers	59.1
					8	Ladder Logic and Motors	38.5
					9	Safety	72.0
					10	Programmable Logic Controllers	79.6
		Perf	94	88.7	1	Semiconductor Testing	86.3
					2	Solder/Desoldering Components	97.8
					3	Meter Usage	84.1
					4	Circuit Construction	94.4
					5	Oscilloscope Usage	80.6
					6	Troubleshooting	89.1
					7	Gate Substitution	78.6
2074	Industrial Maintenance Mechanics	Written	935	56.2	1	Machinery and Equipment	63.9
					2	Tools and Safety	68.8
					3	Electronics and Electrical Principles	62.0
					4	Hydraulics and Pneumatics	57.6
					5	Motors and Motor Controls	42.7
					6	Mechanism Drives	41.8
					7	Industrial Robotics Systems	52.7
					8	Blueprints and Schematics	55.3
		Perf	26	54.4	1	Connect and Operate a Circuit	31.6
					2	Assemble a Multiple Shaft Gear Drive System	30.8
					3	Read and interpret an Industrial Blueprint	66.1
					4	Troubleshoot an Electrical Control System	85.7

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
1131	Information Support and Services	Written	23	73.2	1	Information Technology Applications	68.8
					2	Academic Foundations	68.4
					3	Systems	72.9
					4	Ethics and Legal Responsibilities	83.6
					5	Communications	64.8
					6	Problem Solving, Critical Thinking, and Decision Making	71.7
					7	Leadership and Teamwork	85.2
					8	Safety, Health, and Environmental	76.3
					9	Employability and Career Development	72.8
					10	Information Support and Services	75.7
1132	Interactive Media	No data available					
1032	Interior Decorating and Design	Written	43	77.2	1	Safety and Environmental Issues	82.8
					2	Elements and Principles of Design	75.3
					3	Textiles, Fibers, and Fabrics	64.2
					4	Interior Materials and Products	73.3
					5	Furnishings and Accessories	77.1
					6	Art Periods and Design Styles	61.4
					7	Visual Presentation	79.3
					8	Technical Knowledge	73.3
					9	Retail Operation Procedures	85.2
					10	Marketing Skills	85.6
					11	Housing Issues	81.9
1170	IT Exploration	No data available					
1137	Legal Services	Written	137	72.2	1	General Skills	65.4
					2	Academic Foundations	76.9
					3	Systems	74.2
					4	Ethics and Legal Responsibilities	67.6
					5	Communications	84.8
					6	Information Technology Applications	80.4
					7	Problem Solving, Critical Thinking, and Decision Making	71.5
					8	Leadership and Teamwork	72.3
					9	Safety, Health, and Environment	70.9
					10	Employability and Career Development	84.9
					11	Legal Services	65.9

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
1287	Lodging	No data available					
2071	Logistics Technology/Distribution Center Services	Written	61	74.7	1	Operations/Safety and Ergonomics	84.0
					2	Operations/Inventory Management	71.3
					3	Operations/Procurement	75.4
					4	Operations/Receiving	70.5
					5	Operations/Putaway	88.9
					6	Operations/Picking (Order Selection)	54.4
					7	Operations/Packing	76.4
					8	Operations/Shipping	77.9
					9	Operations/Material Handling Equipment	61.6
					10	Operations/Technology	76.8
					11	Customer Relations/Direct Comm with Customers	91.8
					12	Customer Relations/Customer Requirement Analysis	79.8
					13	Logistics/Supply Chain Management	78.0
					14	Logistics/Industry Trends and Current Topics	98.4
		Perf	19	96.4	1	Inventory Control/Cycle Count	93.3
					2	Material Handling Equipment	96.8
					3	Receiving	99.3
					4	Order Fulfillment Process	98.8
					5	Bill of Lading	91.2
1129	Maintenance Operations	No data available					
2084	Manufacturing Technology	Written	150	64.0	1	Manufacturing Math, Science, and Measurement	65.9
					2	Workplace Safety, Health, and Job Skills	76.7
					3	Quality Assurance	66.2
					4	Blueprint Reading	62.5
					5	Manufacturing Fund, Processes & Materials	63.1
					6	Material Handling	76.9
					7	Industrial Robotics Systems	50.6
					8	Computer Use	69.1
					9	Process Control	66.1
					10	Purchasing and Resource Identification Activities	61.6
					11	Electronics and Hydraulics	49.1
					12	Design Processes	59.9

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
2084	Manufacturing Technology	Perf	26	79	1	Milling Operations	80.6
					2	Assemble A Multiple Shaft Gear Drive System	70.5
					3	Determine Gage Block Combinations	87.8
4038	Mechanical Drafting and Design	Written	121	77.6	1	Preparing to Draw: Basic Drawing and Dimensioning Skills	80.0
					2	Applied Mathematics	80.7
					3	Identify Measurements	75.3
					4	Geometric Construction	80.5
					5	Engineering Drawings	79.3
					6	Multiview Drawings	69.7
					7	Section Views	66.2
					8	Auxiliary Views	66.3
					9	Dimensioning Skills	81.6
					Perf	No data available	
2040	Mechatronics-Level 1	Written	203	68.8	1	Introduction to Mechatronics: Safety	73.1
					2	Introduction to Mechatronics: Communication	74.7
					3	Instrumentation and Measurement	69.5
					4	Electrical	63.7
					5	Mechanical	72.0
					6	Hydraulic and Pneumatic Systems	74.7
					7	Computer and Control Systems	58.8
4455	Medical Assisting	Written	90	79.4	1	Medical Office Procedures	76.4
					2	Foundations of Health Care	76.1
					3	General Laboratory Procedures and Diagnostic Testing	73.1
					4	Clinical Practices and Patient Care	82.8
					5	Medical Assisting Safety	74.1
					6	Patient Instruction	81.2
					7	Medical Law and Ethics for Health Care	84.3
		Perf	21	96.3	1	Positioning	98.1
					2	Blood Pressure and Pulse Measurement	95.7
					3	Electrocardiogram	98.2
					4	Visual Acuity Screening	93.7
					5	Lab Requisition Form	96.8
					6	Applying and Removing Sterile Gloves	97.1

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
1228	Natural Resources Systems	Written	27	62.9	1	Technical Skills	59.3
					2	Academic Foundations	59.0
					3	Systems	77.8
					4	Ethics and Legal Responsibilities	72.0
					5	Communications	58.7
					6	Information Technology Applications	62.3
					7	Problem Solving, Critical Thinking, and Decision-Making	67.3
					8	Leadership and Teamwork	70.4
					9	Safety, Health, and Environmental	63.3
					10	Employability and Career Development	73.0
					11	Natural Resources	56.5
1130	Network Systems	No data available					
4158	Nursing Assisting	Written	959	77.2	1	Basic Nursing Assisting Skills	75.3
					2	Infection Control	67.3
					3	Communication Skills	73.8
					4	Personal Care Skills	82.5
					5	Mental Health and Social Service Needs	83.9
					6	Ethics, Rights, and Legal Responsibilities	82.4
					7	Basic Restorative Devices	75.6
					8	Employability Skills	77.2
		Perf	61	84.9	1	Obtain and Record Standard Vital Signs	87.5
					2	Apply and Remove Personal Protective Equipment	85.2
					3	Demonstrate Wheelchair Assistance	89.4
					4	Make an Occupied Bed	93.3
					5	Provide a Modified Bed Bath for an Adult Female Patient	76.7
1107	Performing Arts	Written	53	69.8	1	Technical Skills	66.0
					2	Performing Arts	67.7
					3	Academic Foundations	68.6
					4	Systems	81.1
					5	Ethics and Legal Responsibilities	73.8
					6	Communications	80.8
					7	Information Technology Applications	51.8
					8	Problem Solving, Critical Thinking, and Decision-Making	58.8
					9	Leadership and Teamwork	85.4
					10	Safety, Health, and Environmental	72.6
					11	Employability and Career Development	61.9

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg	
1238	Personal Care Services	No data available						
4061	Plumbing	Written	844	73.5	1	Safety	76.2	
					2	Plumbing Math	66.3	
					3	General Plumbing Practices	76.8	
					4	Joining Pipes and Fittings	76.3	
					5	Drainage	72.2	
					6	Vent Installation	67.5	
					7	Water Supply and Distribution	79.4	
					8	Hot Water Systems	76.8	
					9	Traps	69.6	
					10	Installing Fixtures	71.4	
					11	Plumbing Service and Repair	68.8	
		Perf	290	93.3	1	Install and prepare to Leak Test a DWV System	94.0	
					2	Install and Prepare to Leak Test a Water Supply System	92.6	
4162	Practical Nursing	Written	29	75.8	1	Communication and Employability	85.5	
					2	Legal and Ethical Responsibilities	87.1	
					3	Anatomy, Physiology, and Pathophysiology	65.9	
					4	Patient Care Skills	73.0	
					5	Administer Medication	63.5	
					6	Infection Control	79.3	
					7	Psychological Support	83.6	
					8	Supervised Management Functions	80.1	
		Perf	No data available					
4152	Precision Machining	Written	573	74.5	1	Organization and Shop Safety Practices	85.4	
					2	Measurement and Inspection	74.1	
					3	Metallurgical Processes and Heat Treating	79.7	
					4	Blueprint Interpretation and Process Planning	73.1	
					5	Layout and Benchwork	69.5	
					6	Band Saw Machines	74.1	
					7	Lathes	75.9	
					8	Milling Machines	66.7	
					9	Surface Grinding	68.2	
					10	Computer Numerical Control (CNC) Programming, Preparation, &	79.9	
					11	Drill Press	77.7	



Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/Job #	Standard/Job Description	Stand/Job Avg
4152	Precision Machining	Perf	23	58.4	1	Milling Operations	61.4
					2	Lathe Operations	54.7
2475	Pre-Engineering/Engineering Technology	Written	663	69.5	1	Overview of Engineering	80.7
					2	Design Process/Problem Solving	78.3
					3	Manufacturing	65.3
					4	Assembly and Fabrication	69.9
					5	Materials	69.7
					6	Communication and Teamwork	75.6
					7	Safety	67.7
					8	Engineering Systems	63.8
		Perf			No data available		
3063	Production Agriculture	Written	248	64.0	1	Animal Science	65.6
					2	Conservation and Sustainable Natural Resources	62.9
					3	Plant Science	62.7
					4	Soil Management	64.0
					5	Agricultural Technology	66.9
					6	Agri-Business	61.8
		Perf			No data available		
2480	Protective Services	Written	75	69.5	1	Public Safety	70.7
					2	Law Enforcement	71.9
					3	Fire Fighting	75.0
					4	Emergency Medical Services	58.7
					5	Career Development	72.5
					6	Homeland Security	59.8
		Perf			No data available		
1289	Recreation, Amusements, and Attractions	No data available					

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	11	84.4	1	General Hospitality and Tourism Technical Skills	86.0
					2	Academic Foundations	86.7
					3	Systems	90.9
					4	Ethics and Legal Responsibilities	93.9
					5	Communications	84.6
					6	Information Technology Applications	81.8
					7	Problem Solving, Critical Thinking, and Decision Making	79.5
					8	Leadership and Teamwork	92.4
					9	Safety, Health, and Environmental	94.8
					10	Employability and Career Development	94.5
							11
4010	Retail Commercial Baking	Written	420	77.6	1	Safety and Sanitation	82.7
					2	Business and Math Skills	75.1
					3	Identification, Classification, and Properties of Ingredients	69.1
					4	Baking Preparation (Mise en Place)	77.9
					5	Basic Baking	75.9
					6	Product Merchandising	79.3
					7	Purchasing, Receiving, Inventory, and Storage	78.6
					8	Nutrition	76.2
					9	Human Relations and Career Skills	85.0
		Perf	41	93.7	1	Soft Dinner Roll Dough	95.2
					2	Cake Decorating	89.9
					3	Fruit Pie	96.4
					4	Pâte À Choux	94.1
		4153	Retail Merchandising	Written	366	80.6	1
2	Communications						83.6
3	Visual Merchandising						87.2
4	Marketing/Merchandising						78.3
5	Technology in Retail Merchandising						83.2
6	Economics						68.5
7	Customer Service, Sales, and Selling						82.7
8	Professionalism in Retail Merchandising						87.8
9	Retail-related Mathematics						76.1
10	Entrepreneurship						74.6

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
4153	Retail Merchandising	Perf	64	74.5	1	Inventory Check-in	67.2
					2	Cash Handling	75.3
					3	Handling Customer Returns	79.1
					4	Product Knowledge and Selling	72.9
					5	Virtual Cash Drawer Closing of a Retail Business	76.6
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1136	Security and Protective Services	No data available					
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3103	Small Animal Science and Technology	Written	11	61.4	1	Safety and Sanitation	53.7
					2	Animal Care Management	70.5
					3	Grooming	76.4
					4	Genetics and Reproduction	55.2
					5	Management of Small Animal-Related Businesses	58.8
					6	Animal First Aid	58.4
					7	Health and Disease Control	61.0
					8	Nutrition	60.9
		Perf	11	97.0	1	Identify Tools and Equipment	94.2
					2	Proper Restraint and Sex Determination of Small Animals	96.1
					3	Identify Parasites	100
					4	Fill Syringes	100
					5	Canines: Safety, Handling, Restraint, and External Anatomy Iden	95.6
					6	Determine Proper Diet for Small Animals	97
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4168	Small Engine Technology	Written	39	71.3	1	Safety	79.9
					2	General Shop Practices	77.3
					3	Maintenance	70.6
					4	Lubrication Systems	81.6
					5	Fuel System Fundamentals	75.0
					6	Governor	62.2
					7	Ignition	56.2
					8	Starters and Charging Systems	53.8
					9	Cylinder Head and Valve, Service and Maintenance	72.2
					10	Engine Assembly	76.9
					11	Troubleshooting	68.8

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
4168	Small Engine Technology	Perf	28	77.1	1	Start and Adjust Engine	71.2
					2	Ignition Service	78.7
					3	Measure Parts	94.6
					4	Valve Service	75.1
					5	Carburetor Service	75.9
					6	Invoicing Parts	79.4
					7	Manual Starter Service	69.8
4054	Technical Drafting	Written	335	67.8	1	Basic Drawing Skills	69.9
					2	Geometric Construction	71.0
					3	Applied Mathematics	81.5
					4	Dimensioning Skills	65.8
					5	Multiview Drawing	61.6
					6	Threads and Fasteners	63.5
					7	Manufacturing Processes	61.6
					8	Design Principles	55.9
		Perf	174	72.6	1	Visualization	72.5
					2	Orthographic Drawing	73.2
					3	Development	64.7
			4	Assembly	77.7		
3427	Television Production	Written	161	71.3	1	Safety and Sanitation	82.9
					2	Business and Math Skills	70.4
					3	Identification, Classification, and Properties of Ingredients	70.0
					4	Baking Preparation (Mise en Place)	70.0
					5	Basic Baking	72.4
		Perf	20	82.3	1	Create and Script Video	85.8
			2	Shot Composition	81.4		
			3	Edit Shots with the Interview	79.8		
1385	Therapeutic Services	No data available					

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
1288	Travel and Tourism	Written	22	62.5	1	General Hospitality and Tourism Technical Skills	61.2
					2	Academic Foundations	56.3
					3	Systems	67.4
					4	Ethics and Legal Responsibilities	75.0
					5	Communications	63.3
					6	Information Technology Applications	56.1
					7	Problem Solving, Critical Thinking, and Decision Making	51.7
					8	Leadership and Teamwork	77.3
					9	Safety, Health, and Environmental	65.6
					10	Employability and Career Development	74.5
					11	Travel and Tourism	59.7
1108	Visual Arts	Written	48	79.2	1	Technical Skills	80.4
					2	Visual Arts	74.4
					3	Academic Foundations	80.2
					4	Systems	87.8
					5	Ethics and Legal Responsibilities	81.3
					6	Communication	92.0
					7	Information Technology Applications	60.7
					8	Problem Solving, Critical Thinking, and Decision-Making	62.8
					9	Leadership and Teamwork	91.1
					10	Safety, Health, and Environmental	84.0
					11	Employability and Career Development	73.6
3425	Visual Comm & Interactive Multimedia Design	Written	115	74.6	1	Safety	79.4
					2	Career Overview	71.8
					3	Computer Literacy	76.9
					4	Interactive Media	73.9
					5	Visual Literacy	83.9
					6	Conceptual Design Process	75.6
					7	Color Theory	68.5
					8	Typography	72.8
					9	Materials and Tools	61.2
		Perf	No data available				

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
2750	Web Design	Written	150	65.5	1	Internet Basics	76.9
					2	Programming/Markup/Scripting	61.0
					3	Editors	66.2
					4	Web Graphics	73.2
					5	Web Multimedia	57.9
					6	Web Marketing and Business Management	65.8
					7	Site Design	61.3
					8	Administration and Maintenance	63.5
		Perf	11	86.2	1	Create the Cascading Style Sheet (CSS)	85.7
					2	Create the Template	85.6
					3	Create the Home Page	89.1
					4	Create the Form Page	81.1
					5	Create the Content Pages	87.9
		4272	Welding	Written	357	70.9	1
2	Physical Characteristics and Mechanical Properties of Metals						74.3
3	Weld Fit-Up and Quality						74.4
4	Welding Symbols and Blueprint Reading						77.1
5	Oxyfuel Cutting (OFC)						65.8
6	Arc Cutting Process (Carbon Arc and Plasma Arc)						67.5
7	Shielded Metal Arc Welding (SMAW)						68.2
8	Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FC)						63.3
9	Gas Tungsten Arc Welding (GTAW)						69.6
Perf	49			72.1	1	Oxyfuel Cutting	83.5
					2	SMAW V-Groove, 3G	75.8
					3	GMAW, 2F	90.5
					4	Aluminum GTAW Tee Joint, 2F	56.7
					5	Stainless Steel GTAW Lap Joint, 2F	62.4
			6	Uphill FCAW, 3F	60.3		
2150	Wind Turbine Maintenance Technician	Written	129	73.0	1	Safety	74.5
					2	Equipment Operation	91.7
					3	Electrical and Mechanical Systems	68.3
					4	Hand Tools	64.9
					5	Maintain Equipment	74.6
					6	Computational, Technical and Writing Skills	76.9
					7	Introduction to Careers in Wind Technology	86.4

Test Code	Test Title	Test Type	Total Count	Total Avg	Stand/ Job #	Standard/Job Description	Stand/ Job Avg
2150	Wind Turbine Maintenance Technician	Perf	47	90.3	1	(A) Identification of Safety Equipment	95.1
					2	(B) Identification of safety equipment	94.2
					3	(A) Demonstration of safety equipment and climbing technique	96.8
					4	(B) Demonstration of safety equipment and climbing technique	97.2
					5	Connect a Start-Stop Switch to a Contactor and Start a Motor	76.0
					6	Identify hand tools and fasteners	88.1
					7	Torque Testing	90.5
3033	Workplace Readiness	Written	1,009	67.5	1	Communications	66.4
					2	Problem Solving and Critical Thinking	60.5
					3	Information Technology Applications	70.6
					4	Systems	62.3
					5	Safety, Health, and Environment	61.9
					6	Leadership and Teamwork	78.4
					7	Ethics and/or Legal Responsibilities	81.5
					8	Employability and/or Career Development	69.6