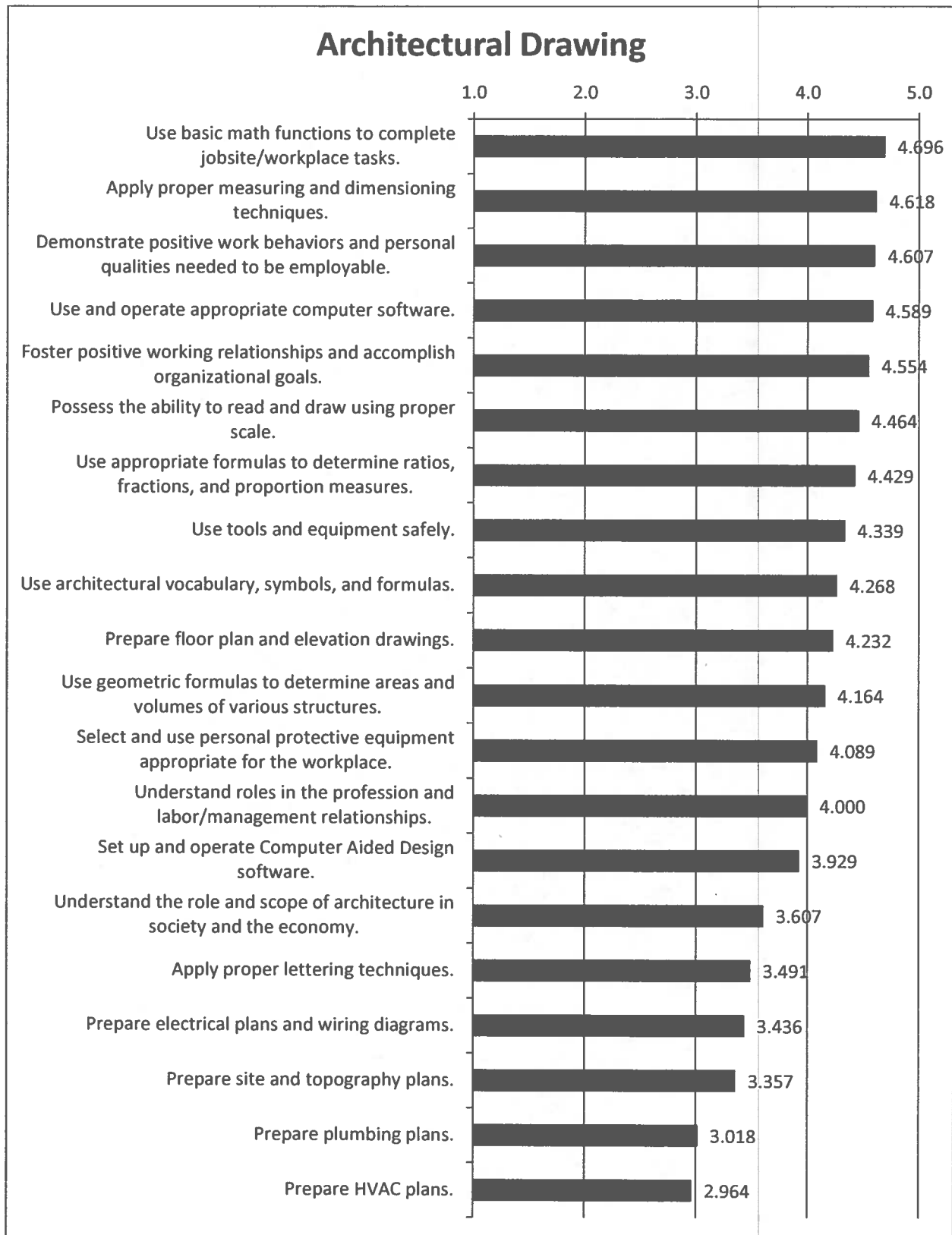


## II. Architectural Drawing



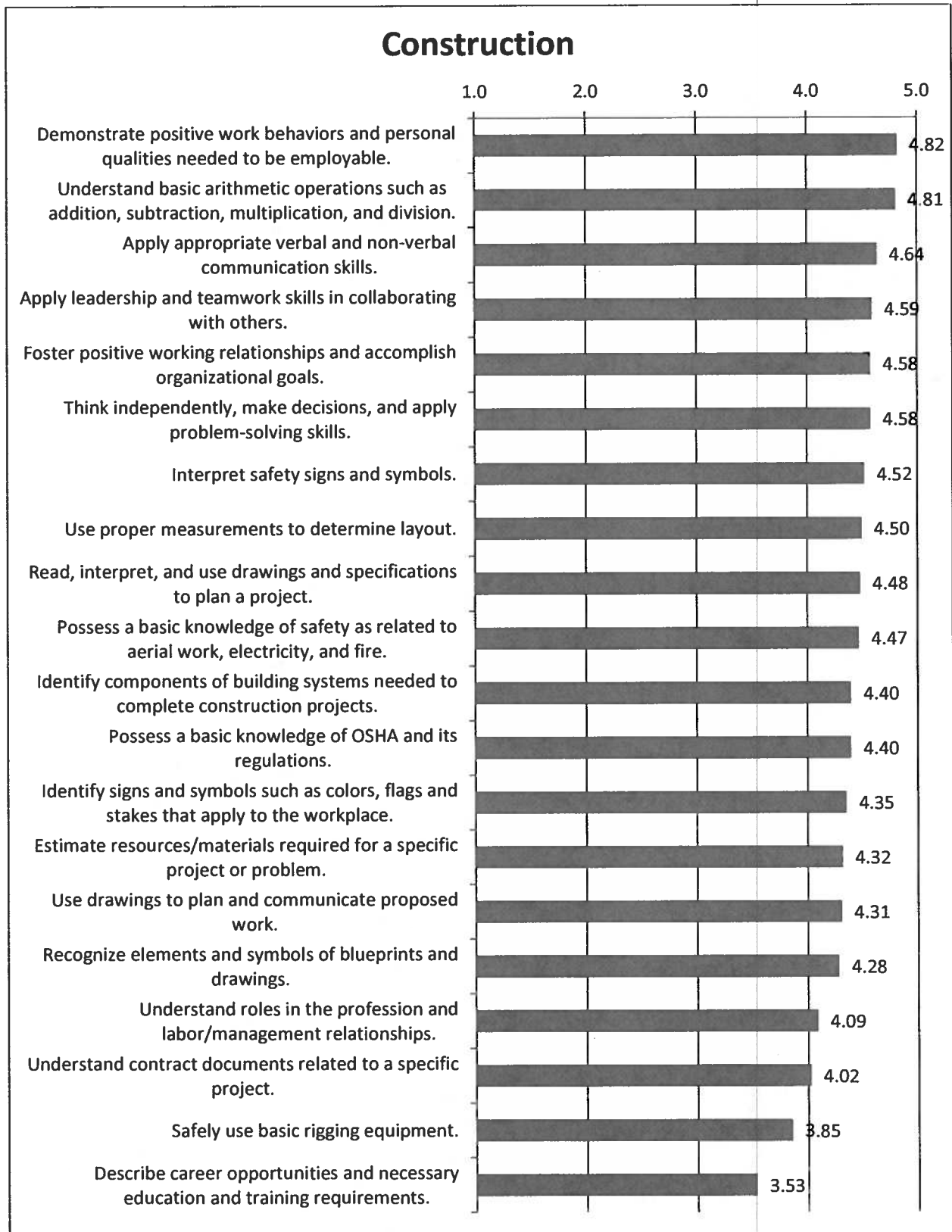
### Architectural Drawing

Skill/Knowledge Set	Mean	Minimum	Maximum	Mode	Standard Error of Mean	Valid N
Use basic math functions to complete jobsite/workplace tasks.	4.696	1	5	5	.127	56
Apply proper measuring and dimensioning techniques.	4.618	1	5	5	.134	55
Demonstrate positive work behaviors and personal qualities needed to be employable.	4.607	1	5	5	.113	56
Use and operate appropriate computer software.	4.589	1	5	5	.098	56
Foster positive working relationships and accomplish organizational goals.	4.554	1	5	5	.117	56
Possess the ability to read and draw using proper scale.	4.464	1	5	5	.137	56
Use appropriate formulas to determine ratios, fractions, and proportion measures.	4.429	1	5	5	.132	56
Use tools and equipment safely.	4.339	1	5	5	.162	56
Use architectural vocabulary, symbols, and formulas.	4.268	1	5	5	.145	56
Prepare floor plan and elevation drawings.	4.232	1	5	5	.149	56
Use geometric formulas to determine areas and volumes of various structures.	4.164	1	5	5	.188	55
Select and use personal protective equipment appropriate for the workplace.	4.089	1	5	5	.175	56
Understand roles in the profession and labor/management relationships.	4.000	1	5	5	.160	55
Set up and operate Computer Aided Design software.	3.929	1	5	5	.174	56
Understand the role and scope of architecture in society and the economy.	3.607	1	5	4	.163	56
Apply proper lettering techniques.	3.491	1	5	5	.178	55
Prepare electrical plans and wiring diagrams.	3.436	1	5	4	.179	55
Prepare site and topography plans.	3.357	1	5	5	.195	56
Prepare plumbing plans.	3.018	1	5	2	.192	56
Prepare HVAC plans.	2.964	1	5	2	.184	56

### Suggested Additional Skills and Other Responses

Understand the relationship between architect, owner and contractor  
Algebra and Trig. Skills  
Safety Training: ie OSAH 10

**III. Construction**



### Construction

Skill/Knowledge Set					Standard	Valid N
	Mean	Minimum	Maximum	Mode	Error of Mean	
Demonstrate positive work behaviors and personal qualities needed to be employable.	4.82	3	5	5	.042	130
Understand basic arithmetic operations such as addition, subtraction, multiplication, and division.	4.81	3	5	5	.044	130
Apply appropriate verbal and non-verbal communication skills.	4.64	2	5	5	.060	130
Apply leadership and teamwork skills in collaborating with others.	4.59	2	5	5	.059	130
Foster positive working relationships and accomplish organizational goals.	4.58	2	5	5	.062	128
Think independently, make decisions, and apply problem-solving skills.	4.58	2	5	5	.063	128
Interpret safety signs and symbols.	4.52	2	5	5	.076	125
Use proper measurements to determine layout.	4.50	1	5	5	.084	127
Read, interpret, and use drawings and specifications to plan a project.	4.48	1	5	5	.084	127
Possess a basic knowledge of safety as related to aerial work, electricity, and fire.	4.47	1	5	5	.085	130
Identify components of building systems needed to complete construction projects.	4.40	1	5	5	.084	128
Possess a basic knowledge of OSHA and its regulations.	4.40	1	5	5	.080	129
Identify signs and symbols such as colors, flags and stakes that apply to the workplace.	4.35	1	5	5	.094	128
Estimate resources/materials required for a specific project or problem.	4.32	1	5	5	.081	126
Use drawings to plan and communicate proposed work.	4.31	1	5	5	.092	127
Recognize elements and symbols of blueprints and drawings.	4.28	1	5	5	.097	128
Understand roles in the profession and labor/management relationships.	4.09	1	5	5	.092	126
Understand contract documents related to a specific project.	4.02	1	5	5	.106	127
Safely use basic rigging equipment.	3.85	1	5	5	.126	130
Describe career opportunities and necessary education and training requirements.	3.53	1	5	4	.099	126

### Suggested Additional Skills and Other Responses

accurate takeoff of drawings for estimating purposes

Math skills. calculations, and computer skills

Safety

Critical thinking is a requirement of these professions.

N/A

Be able to visualize between 2D and 3D

interpreting job specifications for accurate estimates

Understanding of electronic components use in many finish materials today

Staff Management

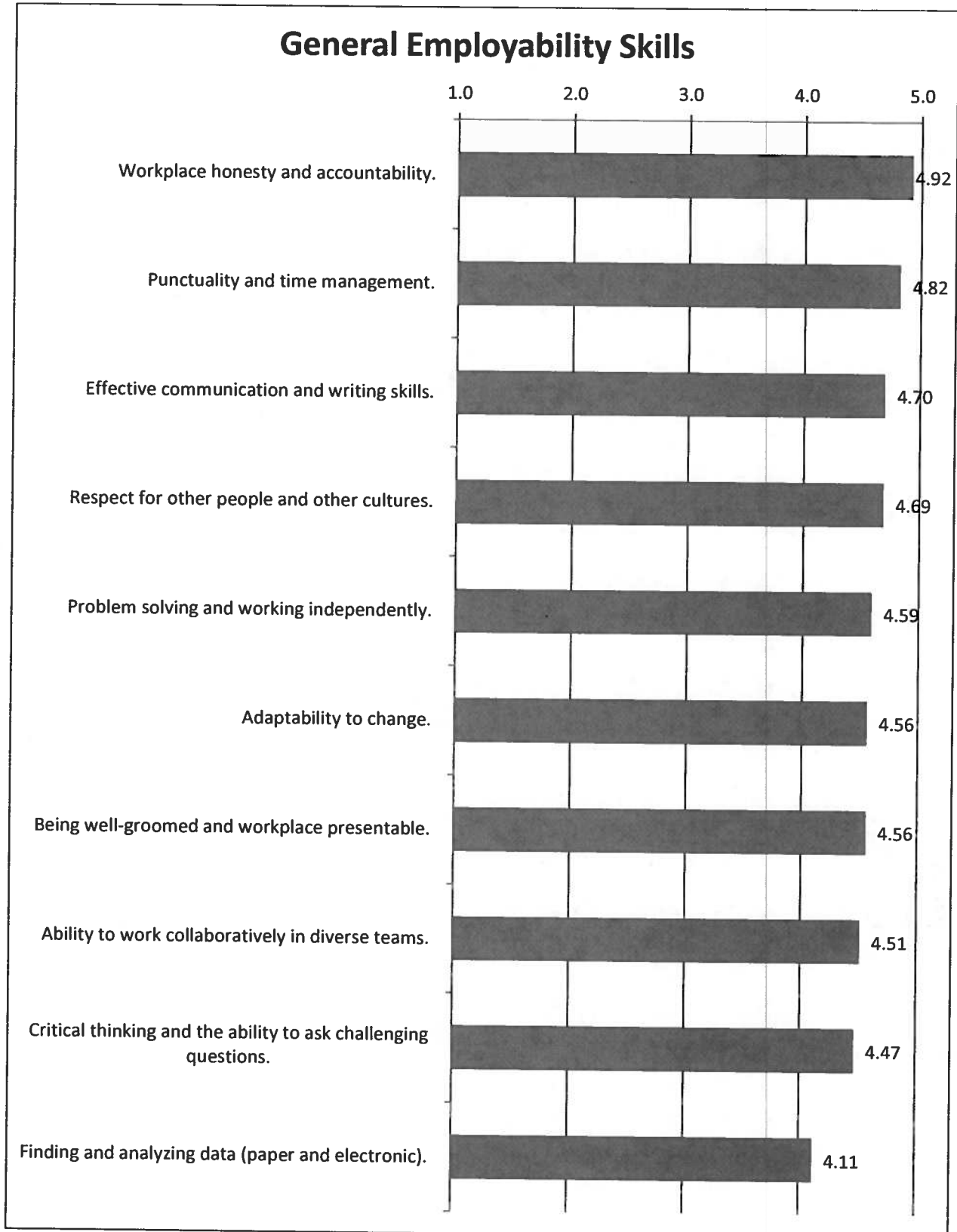
Learn basic technical skills appropriate to a chosen field

AutoCAD skills for reviewing electronic drawings for estimating

Project Management

Learn the relationships between various building components and systems

**I. General Employability Skills**



### General Employability Skills

Skill/Knowledge Set	Mean	Minimum	Maximum	Mode	Standard Error of Mean	Valid N
Workplace honesty and accountability.	4.92	1	5	5	.009	2173
Punctuality and time management.	4.82	1	5	5	.011	2172
Effective communication and writing skills.	4.70	1	5	5	.014	2179
Respect for other people and other cultures.	4.69	1	5	5	.015	2169
Problem solving and working independently.	4.59	1	5	5	.015	2163
Adaptability to change.	4.56	1	5	5	.015	2179
Being well-groomed and workplace presentable.	4.56	1	5	5	.016	2178
Ability to work collaboratively in diverse teams.	4.51	1	5	5	.017	2180
Critical thinking and the ability to ask challenging questions.	4.47	1	5	5	.016	2172
Finding and analyzing data (paper and electronic).	4.11	1	5	5	.021	2175

Suggested Additional Skills and Other Responses	Frequency
Creativity	19
Ability to learn new skills or improve upon skills	22
Other	23
Leadership skills & ability to follow directions	44
Flexibility	55
Adhere to workplace ethics & rules (Being responsible)	99
Communication, Cooperation, Collaboration	120
Attitude (positive, take initiative, motivated, etc.)	121
Being effective and efficient	129
Competent in necessary skills	217