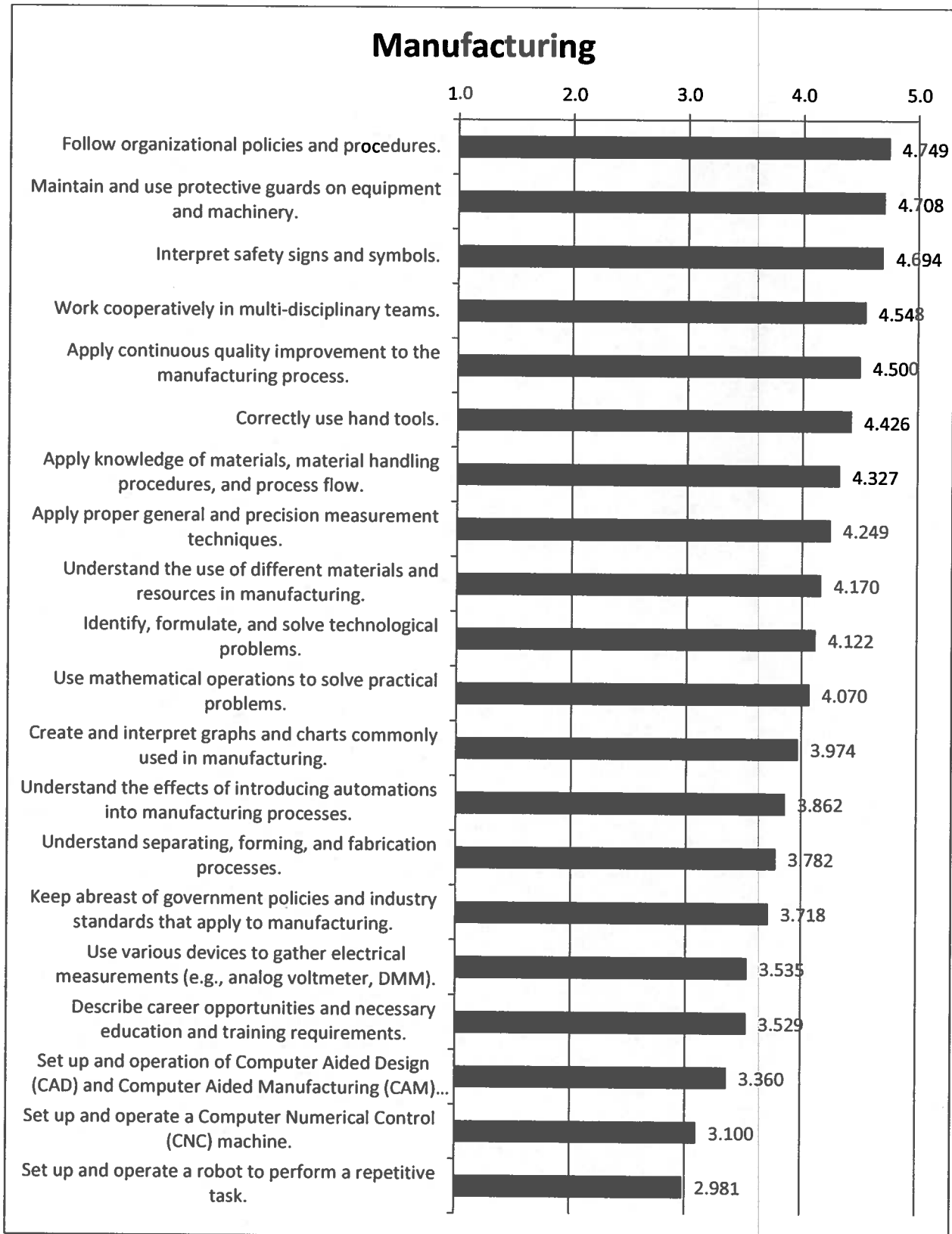


II. Manufacturing



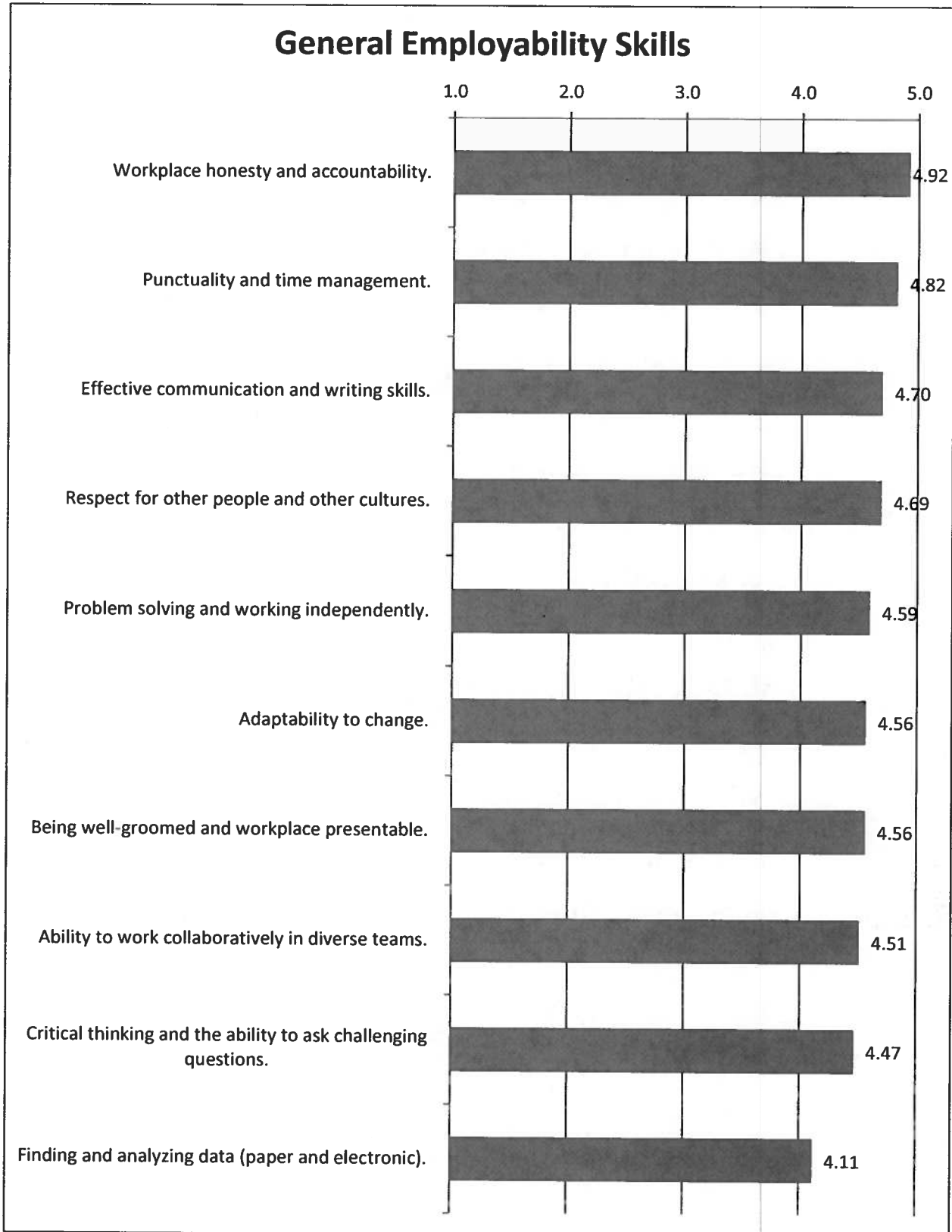
Manufacturing

Skill/Knowledge Set	Mean	Minimum	Maximum	Mode	Standard Error of Mean	Valid N
Follow organizational policies and procedures.	4.749	1	5	5	.041	271
Maintain and use protective guards on equipment and machinery.	4.708	1	5	5	.046	271
Interpret safety signs and symbols.	4.694	1	5	5	.048	271
Work cooperatively in multi-disciplinary teams.	4.548	1	5	5	.051	272
Apply continuous quality improvement to the manufacturing process.	4.500	1	5	5	.052	272
Correctly use hand tools.	4.426	1	5	5	.060	270
Apply knowledge of materials, material handling procedures, and process flow.	4.327	1	5	5	.056	272
Apply proper general and precision measurement techniques.	4.249	1	5	5	.061	273
Understand the use of different materials and resources in manufacturing.	4.170	1	5	5	.056	271
Identify, formulate, and solve technological problems.	4.122	1	5	5	.060	271
Use mathematical operations to solve practical problems.	4.070	1	5	5	.062	272
Create and interpret graphs and charts commonly used in manufacturing.	3.974	1	5	4	.064	271
Understand the effects of introducing automations into manufacturing processes.	3.862	1	5	5	.069	269
Understand separating, forming, and fabrication processes.	3.782	1	5	5	.073	271
Keep abreast of government policies and industry standards that apply to manufacturing.	3.718	1	5	5	.073	273
Use various devices to gather electrical measurements (e.g., analog voltmeter, DMM).	3.535	1	5	4	.074	271
Describe career opportunities and necessary education and training requirements.	3.529	1	5	4	.075	272
Set up and operation of Computer Aided Design (CAD) and Computer Aided Manufacturing (CAM) software.	3.360	1	5	4	.077	272
Set up and operate a Computer Numerical Control (CNC) machine.	3.100	1	5	4	.083	269
Set up and operate a robot to perform a repetitive task.	2.981	1	5	4	.084	268

Suggested Additional Skills and Other Responses

Production systems (components working together to create a system)
Understand the basics of Operations_because of different mfg. computer and other requirements
Be familiar with sign and design software
Ability to read
Develop global materials resourcing network
proficiency in English
this seems to be directing future workers as "operators" (look at operating CNC) American needs skilled machinest, not just operators!
Blue Print Reading
USE MANY DIFFERENT TYPES OF MATERIALS
Work Hard
Cross-training
SELF-CHECKING AND SELF-ACCOUNTABILITY
Advanced Manufacturing concepts (Lean, Six Sigma, etc).
Understand OSHA
Problem solving skills
Basic understanding of logistics
real skills - not just operators
Metalergy
UNDERSTAND LIMITATIONS OF MATERIALS
Reinforce goal is to make money/profit
Understand Good Manufacturing Practices and Policies
Ability to communicate clearly and effectively with others
work ethics (soft skills)
Quality Guidelines
LOOK FOR OTHER RAW MATERIALS AND SUPPLIERS
Benchmark to exceed TOP competition

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