



TORO Analysis of Purchasing Agents, Except Wholesale, Retail, and Farm Products to Billing, Posting, and Calculating Machine Operators

INPUT SECTION:

Transfer	Title	O* NET	Filters		
From Title:	Purchasing Agents, Except Wholesale, Retail, and Farm Products	13-1023.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Billing, Posting, and Calculating Machine Operators	43-3021.03	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

OUTPUT SECTION:

Grand TORQ:		90
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Ability TORQ		Skills TORQ		Knowledge TORQ	
Level		92	Level		91
			Level		87

Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Number Facility	48	9	59	Active Listening	64	3	71	No Knowledge Upgrades Required!			
Mathematical Reasoning	50	6	68								
Information Ordering	50	2	72								

LEVEL and IMPT (IMPORTANCE) refer to the Target Billing, Posting, and Calculating Machine Operators. GAP refers to level difference between Purchasing Agents, Except Wholesale, Retail, and Farm Products and Billing, Posting, and Calculating Machine Operators.

ASK ANALYSIS

Ability Level Comparison - Abilities with importance scores over 50

Description	Purchasing Agents, Except Wholesale, Retail, and Farm Products	Billing, Posting, and Calculating Machine Operators	Importance
Information Ordering	48	50	72
Oral Expression	66	57	68
Mathematical Reasoning	44	50	68
Near Vision	60	55	68
Oral Comprehension	64	53	65
Written Comprehension	60	53	62
Number Facility	39	48	59



Speech Recognition	50	44	59
Speech Clarity	42	41	59
Written Expression	60	50	56
Deductive Reasoning	69	53	56
Problem Sensitivity	51	42	53
Inductive Reasoning	57	44	53
Category Flexibility	57	42	53
Skill Level Comparison - Abilities with importance scores over 69			
Description	Purchasing Agents, Except Wholesale, Retail, and Farm Products	Billing, Posting, and Calculating Machine Operators	Importance
Active Listening	61	64	71
Knowledge Level Comparison - Knowledge with importance scores over 69			
Description	Purchasing Agents, Except Wholesale, Retail, and Farm Products	Billing, Posting, and Calculating Machine Operators	Importance
Clerical	71	60	87

Experience & Education Comparison					
Related Work Experience Comparison			Required Education Level Comparison		
Description	Purchasing Agents, Except Wholesale, Retail, and Farm Products	Billing, Posting, and Calculating Machine Operators	Description	Purchasing Agents, Except Wholesale, Retail, and Farm Products	Billing, Posting, and Calculating Machine Operators
10+ years	0%	0%	Doctoral	0%	0%
8-10 years	6%	2%	Professional Degree	0%	0%
6-8 years	0%	0%	Post-Masters Cert	0%	0%
4-6 years	29%	0%	Master's Degree	0%	2%
2-4 years	23%	32%	Post-Bachelor Cert	2%	0%
1-2 years	0%	14%	Bachelors	33%	0%
6-12 months	18%	8%	AA or Equiv	2%	2%
3-6 months	22%	0%	Some College	41%	2%
1-3 months	0%	0%	Post-Secondary Certificate	7%	7%
0-1 month	0%	0%	High School Diploma or GED	11%	84%
None	0%	40%	No HSD or GED	0%	0%
Purchasing Agents, Except Wholesale, Retail, and Farm Products			Billing, Posting, and Calculating Machine Operators		
Most Common Educational/Training Requirement:					
Work experience in a related occupation			Moderate-term on-the-job training		
Job Zone Comparison					
3 - Job Zone Three: Medium Preparation Needed			2 - Job Zone Two: Some Preparation Needed		
Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.			Some previous work-related skill, knowledge, or experience may be helpful in these occupations, but usually is not needed. For example, a teller might benefit from experience working directly with the public, but an inexperienced person could still learn to be a teller with little difficulty.		



Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree. Some may require a bachelor's degree.

These occupations usually require a high school diploma and may require some vocational training or job-related course work. In some cases, an associate's or bachelor's degree could be needed.

Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers.

Employees in these occupations need anywhere from a few months to one year of working with experienced employees.

Tasks

Purchasing Agents, Except Wholesale, Retail, and Farm Products

Core Tasks

Generalized Work Activities:

- Interacting With Computers - Using computers and computer systems (including hardware and software) to program, write software, set up functions, enter data, or process information.
- Communicating with Supervisors, Peers, or Subordinates - Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Communicating with Persons Outside Organization - Communicating with people outside the organization, representing the organization to customers, the public, government, and other external sources. This information can be exchanged in person, in writing, or by telephone or e-mail.
- Organizing, Planning, and Prioritizing Work - Developing specific goals and plans to prioritize, organize, and accomplish your work.

Specific Tasks

Occupation Specific Tasks:

- Analyze price proposals, financial reports, and other data and information to determine reasonable prices.
- Arrange the payment of duty and freight charges.
- Attend meetings, trade shows, conferences, conventions and seminars to network with people in other purchasing departments.
- Confer with staff, users, and vendors to discuss defective or unacceptable goods or services and determine corrective action.
- Evaluate and monitor contract performance to ensure compliance with contractual obligations and to determine need for changes.
- Formulate policies and procedures for bid proposals and procurement of goods and

Billing, Posting, and Calculating Machine Operators

Core Tasks

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- Communicating with Supervisors, Peers, or Subordinates - Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Establishing and Maintaining Interpersonal Relationships - Developing constructive and cooperative working relationships with others, and maintaining them over time.
- Updating and Using Relevant Knowledge - Keeping up-to-date technically and applying new knowledge to your job.

Specific Tasks

Occupation Specific Tasks:

- Answer mail and telephone inquiries regarding rates, routing, and procedures.
- Compile reports of cost factors, such as labor, production, storage, and equipment.
- Compute credit terms, discounts, shipment charges, and rates for goods and services in order to complete billing documents.
- Consult sources such as rate books, manuals, and insurance company representatives in order to determine specific charges and information such as rules, regulations, and government tax and tariff information.
- Contact customers in order to obtain or relay account information.
- Estimate market value of products or services.
- Keep records of invoices and support documents.
- Operate typing, adding, calculating, and



services.

- Hire, train and/or supervise purchasing clerks, buyers, and expeditors.
- Interview vendors and visit suppliers' plants and distribution centers to examine and learn about products, services and prices.
- Maintain and review computerized or manual records of items purchased, costs, delivery, product performance, and inventories.
- Monitor and follow applicable laws and regulations.
- Monitor changes affecting supply and demand, tracking market conditions, price trends, or futures markets.
- Monitor shipments to ensure that goods come in on time, and in the event of problems trace shipments and follow up undelivered goods.
- Negotiate, or renegotiate, and administer contracts with suppliers, vendors, and other representatives.
- Prepare purchase orders, solicit bid proposals and review requisitions for goods and services.
- Purchase the highest quality merchandise at the lowest possible price and in correct amounts.
- Research and evaluate suppliers based on price, quality, selection, service, support, availability, reliability, production and distribution capabilities, and the supplier's reputation and history.
- Review catalogs, industry periodicals, directories, trade journals, and Internet sites, and consult with other department personnel to locate necessary goods and services.
- Study sales records and inventory levels of current stock to develop strategic purchasing programs that facilitate employee access to supplies.
- Write and review product specifications, maintaining a working technical knowledge of the goods or services to be purchased.

Detailed Tasks

Detailed Work Activities:

- analyze financial data
- analyze sales activities or trends
- communicate technical information
- compute financial data
- confer with sales or purchasing personnel
- confer with vendors
- determine reasonable prices
- develop purchasing policies or procedures
- direct and coordinate activities of workers or staff
- fill out purchase requisitions

billing machines.

- Perform bookkeeping work, including posting data and keeping other records concerning costs of goods and services and the shipment of goods.
- Prepare itemized statements, bills, or invoices; and record amounts due for items purchased or services rendered.
- Resolve discrepancies in accounting records.
- Review compiled data on operating costs and revenues in order to set rates.
- Review documents such as purchase orders, sales tickets, charge slips, or hospital records in order to compute fees and charges due.
- Track accumulated hours and dollar amounts charged to each client job in order to calculate client fees for professional services such as legal and accounting services.
- Type billing documents, shipping labels, credit memorandums, and credit forms, using typewriters or computers.
- Update manuals when rates, rules, or regulations are amended.
- Verify accuracy of billing data and revise any errors.

Detailed Tasks

Detailed Work Activities:

- answer customer or public inquiries
- compile data for financial reports
- complete patient bills
- compute financial data
- detect discrepancies on records or reports
- ensure correct grammar, punctuation, or spelling
- examine documents for completeness, accuracy, or conformance to standards
- fill out business or government forms
- maintain account records
- maintain balance sheets
- maintain inventory of office forms
- maintain records, reports, or files
- operate business machines
- prepare billing statements
- prepare cost estimates
- prepare reports
- process account invoices
- reconcile or balance financial records
- resolve customer or public complaints
- use accounting or bookkeeping software
- use accounting terminology
- use computers to enter, access or retrieve data
- use spreadsheet software



- follow contract, property, or insurance laws
- hire, discharge, transfer, or promote workers
- identify supplier with best bid
- inspect merchandise to determine value
- locate sources of supply for purchasing
- maintain records, reports, or files
- make presentations
- manage contracts
- mediate or arbitrate disputes
- monitor consumer or marketing trends
- monitor contract performance
- negotiate business contracts
- obtain information from individuals
- order or purchase supplies, materials, or equipment
- process account invoices
- use appraisal techniques in purchasing
- use computers to enter, access or retrieve data
- use interpersonal communication techniques
- use spreadsheet software
- use word processing or desktop publishing software
- write business correspondence
- write business project or bid proposals

- use telephone communication techniques
- use word processing or desktop publishing software
- verify data from invoices to ensure accuracy
- write business correspondence

Labor Market Comparison

Description	Purchasing Agents, Except Wholesale, Retail, and Farm Products	Billing, Posting, and Calculating Machine Operators	Difference
Median Wage	\$ 45,210	\$ 27,580	\$(17,630)
10th Percentile Wage	\$ 31,440	\$ 20,390	\$(11,050)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 57,570	\$ 31,490	\$(26,080)
90th Percentile Wage	\$ 72,070	\$ 36,570	\$(35,500)
Mean Wage	\$ 48,120	\$ 27,790	\$(20,330)
Total Employment - 2007	920	1,990	1,070
Employment Base - 2006	995	2,045	1,050
Projected Employment - 2016	974	2,066	1,092



Projected Job Growth - 2006-2016	-2.1 %	1.0 %	3.1 %
Projected Annual Openings - 2006-2016	21	28	7

National Job Posting Trends

Trend for Purchasing Agents, Except Wholesale, Retail, and Farm Products

Trend for Billing, Posting, and Calculating Machine Operators



Data from [Indeed](http://Indeed.com)

Recommended Programs

Accounting Technician

Accounting Technology/Technician and Bookkeeping. A program that prepares individuals to provide technical administrative support to professional accountants and other financial management personnel. Includes instruction in posting transactions to accounts, record-keeping systems, accounting software operation, and general accounting principles and practices.

Institution	Address	City	URL
Central Maine Community College	1250 Turner St	Auburn	www.cmcc.edu
Kennebec Valley Community College	92 Western Ave	Fairfield	www.kvcc.me.edu
University of Maine at Machias	9 O'Brien Ave	Machias	www.umm.maine.edu
Northern Maine Community College	33 Edgemont Dr	Presque Isle	www.nmcc.edu

General Office/Clerical and Typing Services

General Office Occupations and Clerical Services. A program that prepares individuals to provide basic administrative support under the supervision of office managers, administrative assistants, secretaries, and other office personnel. Includes instruction in typing, keyboarding, filing, general business correspondence, office equipment operation, and communications skills.



Institution	Address	City	URL
Northern Maine Community College	33 Edgemont Dr	Presque Isle	www.nmcc.edu

Maine Statewide Promotion Opportunities for Purchasing Agents, Except Wholesale, Retail, and Farm Products

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
13-1023.00	Purchasing Agents, Except Wholesale, Retail, and Farm Products	100	3	920	\$45,210.00	\$0.00	-2%	21
19-3021.00	Market Research Analysts	88	4	200	\$49,960.00	\$4,750.00	3%	2
13-2031.00	Budget Analysts	88	4	170	\$57,290.00	\$12,080.00	3%	5
13-2053.00	Insurance Underwriters	87	3	460	\$56,090.00	\$10,880.00	-1%	12
13-2061.00	Financial Examiners	87	4	120	\$55,110.00	\$9,900.00	3%	2
13-2072.00	Loan Officers	87	3	1,450	\$49,380.00	\$4,170.00	9%	29
13-2051.00	Financial Analysts	86	4	210	\$71,380.00	\$26,170.00	10%	4
11-3031.02	Financial Managers, Branch or Department	85	4	2,440	\$67,670.00	\$22,460.00	7%	58
11-9131.00	Postmasters and Mail Superintendents	85	3	420	\$55,200.00	\$9,990.00	-5%	10
41-3031.01	Sales Agents, Securities and Commodities	85	4	0	\$65,230.00	\$20,020.00	5%	33
41-3031.02	Sales Agents, Financial Services	85	4	0	\$65,230.00	\$20,020.00	5%	33
13-1031.01	Claims Examiners, Property and Casualty Insurance	85	3	1,570	\$49,360.00	\$4,150.00	3%	44
19-3011.00	Economists	85	5	50	\$49,150.00	\$3,940.00	2%	2
13-2011.01	Accountants	85	4	3,250	\$48,110.00	\$2,900.00	11%	113
13-2052.00	Personal Financial Advisors	85	3	360	\$94,100.00	\$48,890.00	10%	13

Maine Statewide Promotion Opportunities for Billing, Posting, and Calculating Machine Operators

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
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43-3021.03	Billing, Posting, and Calculating Machine Operators	100	2	1,990	\$27,580.00	\$0.00	1%	28
43-3051.00	Payroll and Timekeeping Clerks	88	3	650	\$30,470.00	\$2,890.00	-3%	17
43-3021.01	Statement Clerks	88	2	1,990	\$27,580.00	\$0.00	1%	28
43-3031.00	Bookkeeping, Accounting, and Auditing Clerks	88	3	7,220	\$29,840.00	\$2,260.00	6%	177
43-3021.02	Billing, Cost, and Rate Clerks	86	3	1,990	\$27,580.00	\$0.00	1%	28
43-9041.02	Insurance Policy Processing Clerks	86	2	1,810	\$31,380.00	\$3,800.00	-8%	22
43-6011.00	Executive Secretaries and Administrative Assistants	84	3	3,330	\$38,830.00	\$11,250.00	6%	76
43-6014.00	Secretaries, Except Legal, Medical, and Executive	84	2	10,400	\$28,260.00	\$680.00	-6%	172
43-9041.01	Insurance Claims Clerks	84	2	1,810	\$31,380.00	\$3,800.00	-8%	22
43-4031.01	Court Clerks	84	2	1,190	\$27,650.00	\$70.00	9%	37
43-4031.03	License Clerks	83	2	1,190	\$27,650.00	\$70.00	9%	37
31-9094.00	Medical Transcriptionists	82	3	620	\$29,490.00	\$1,910.00	15%	17
43-4031.02	Municipal Clerks	82	3	1,190	\$27,650.00	\$70.00	9%	37
43-4011.00	Brokerage Clerks	82	3	270	\$39,120.00	\$11,540.00	-13%	8
43-6012.00	Legal Secretaries	82	3	1,300	\$33,360.00	\$5,780.00	5%	29