



TORO Analysis of Cutting and Slicing Machine Setters, Operators, and Tenders to Cementing and Gluing Machine Operators and Tenders

INPUT SECTION:

Transfer	Title	O*NET	Filters		
From Title:	Cutting and Slicing Machine Setters, Operators, and Tenders	51-9032.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Cementing and Gluing Machine Operators and Tenders	51-9191.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

OUTPUT SECTION:

Grand TORQ:

89

Ability TORQ		Skills TORQ		Knowledge TORQ	
Level	 89	Level	 91	Level	 86

Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Static Strength	48	13	62	Equipment Selection	59	5	73	No Knowledge Upgrades Required!			
Gross Body Coordination	37	11	53	Operation Monitoring	67	5	73				
Extent Flexibility	50	9	56	Reading Comprehension	51	3	69				
Reaction Time	55	7	56	Operation and Control	64	1	82				
Hearing Sensitivity	37	7	50								
Rate Control	46	4	72								
Speech Recognition	39	5	53								
Response Orientation	42	3	50								
Multilimb Coordination	50	2	59								
Far Vision	41	2	53								
Trunk Strength	42	1	68								
Stamina	35	1	56								

LEVEL and IMPT (IMPORTANCE) refer to the Target Cementing and Gluing Machine Operators and Tenders. GAP refers to level difference between Cutting and Slicing Machine Setters, Operators, and Tenders and Cementing and Gluing Machine Operators and Tenders.

ASK ANALYSIS

Ability Level Comparison - Abilities with importance scores over 50



Description	Cutting and Slicing Machine Setters, Operators, and Tenders	Cementing and Gluing Machine Operators and Tenders	Importance
Rate Control	42	46	72
Arm-Hand Steadiness	48	44	68
Trunk Strength	41	42	68
Manual Dexterity	46	44	65
Finger Dexterity	51	42	62
Static Strength	35	48	62
Control Precision	50	48	59
Multilimb Coordination	48	50	59
Oral Comprehension	48	44	56
Problem Sensitivity	44	41	56
Reaction Time	48	55	56
Stamina	34	35	56
Extent Flexibility	41	50	56
Near Vision	48	44	56
Perceptual Speed	46	44	53
Gross Body Coordination	26	37	53
Far Vision	39	41	53
Speech Recognition	34	39	53
Speech Clarity	37	34	53
Written Comprehension	44	42	50
Oral Expression	48	46	50
Deductive Reasoning	42	39	50
Information Ordering	48	42	50
Visualization	44	42	50
Selective Attention	46	44	50
Response Orientation	39	42	50
Depth Perception	41	39	50
Hearing Sensitivity	30	37	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Cutting and Slicing Machine Setters, Operators, and Tenders	Cementing and Gluing Machine Operators and Tenders	Importance
Operation and Control	63	64	82
Troubleshooting	63	59	77
Equipment Selection	54	59	73
Operation Monitoring	62	67	73
Equipment Maintenance	68	64	73



Instructing	59	54	71
Reading Comprehension	48	51	69
Mathematics	53	48	69
Learning Strategies	59	54	69
Judgment and Decision Making	55	52	69
Knowledge Level Comparison - Knowledge with importance scores over 69			
Description	Cutting and Slicing Machine Setters, Operators, and Tenders	Cementing and Gluing Machine Operators and Tenders	Importance

Experience & Education Comparison					
Related Work Experience Comparison			Required Education Level Comparison		
Description	Cutting and Slicing Machine Setters, Operators, and Tenders	Cementing and Gluing Machine Operators and Tenders	Description	Cutting and Slicing Machine Setters, Operators, and Tenders	Cementing and Gluing Machine Operators and Tenders
10+ years	0%	12%	Doctoral	0%	0%
8-10 years	0%	0%	Professional Degree	0%	0%
6-8 years	0%	0%	Post-Masters Cert	0%	0%
4-6 years	1%	4%	Master's Degree	0%	0%
2-4 years	13%	0%	Post-Bachelor Cert	0%	0%
1-2 years	23%	23%	Bachelors	0%	0%
6-12 months	1%	3%	AA or Equiv	0%	0%
3-6 months	12%	11%	Some College	10%	0%
1-3 months	1%	6%	Post-Secondary Certificate	1%	0%
0-1 month	10%	4%	High School Diploma or GED	60%	80%
None	36%	32%	No HSD or GED	27%	19%
Cutting and Slicing Machine Setters, Operators, and Tenders			Cementing and Gluing Machine Operators and Tenders		
Most Common Educational/Training Requirement:					
Moderate-term on-the-job training			Moderate-term on-the-job training		
Job Zone Comparison					
2 - Job Zone Two: Some Preparation Needed			1 - Job Zone One: Little or No Preparation Needed		
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.			No previous work-related skill, knowledge, or experience is needed for these occupations. For example, a person can become a cashier even if he/she has never worked before.		
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.			These occupations may require a high school diploma or GED certificate. Some may require a formal training course to obtain a license.		
Employees in these occupations need anywhere from a few months to one year of working with experienced employees.			Employees in these occupations need anywhere from a few days to a few months of training. Usually, an experienced worker could show you how to do the job.		

Tasks



Cutting and Slicing Machine Setters, Operators, and Tenders

Core Tasks

Generalized Work Activities:

- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
- Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Communicating with Supervisors, Peers, or Subordinates - Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.

Specific Tasks

Occupation Specific Tasks:

- Adjust machine controls to alter position, alignment, speed, or pressure.
- Change or replace saw blades, cables, cutter heads, and grinding wheels, using hand tools.
- Clean and lubricate cutting machines, conveyors, blades, saws, or knives, using steam hoses, scrapers, brushes, or oil cans.
- Cut stock manually to prepare for machine cutting, using tools such as knives, cleavers, handsaws, or hammers and chisels.
- Direct workers on cutting teams.
- Examine, measure, and weigh materials or products to verify conformance to specifications, using measuring devices such as rulers, micrometers, or scales.
- Feed stock into cutting machines, onto conveyors, or under cutting blades, by threading, guiding, pushing, or turning handwheels.
- Maintain production records, such as quantities, types, and dimensions of materials produced.
- Mark cutting lines or identifying information on stock, using marking pencils, rulers, or scribes.
- Monitor operation of cutting or slicing machines to detect malfunctions or to determine whether supplies need

Cementing and Gluing Machine Operators and Tenders

Core Tasks

Generalized Work Activities:

- 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.
- Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.
- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.

Specific Tasks

Occupation Specific Tasks:

- Adjust machine components according to specifications such as widths, lengths, and thickness of materials and amounts of glue, cement, or adhesive required.
- Align and position materials being joined in order to ensure accurate application of adhesive or heat sealing.
- Clean and maintain gluing and cementing machines, using solutions, lubricants, brushes, and scrapers.
- Depress pedals to lower electrodes that heat and seal edges of material.
- Examine and measure completed materials or products to verify conformance to specifications, using measuring devices such as tape measures, gauges, or calipers.
- Fill machines with glue, cement, or adhesives.
- Maintain production records such as quantities, dimensions, and thicknesses of materials processed.
- Measure and mix ingredients to prepare glue.
- Monitor machine operations to detect malfunctions; report or resolve problems.
- Mount or load material such as paper, plastic, wood, or rubber in feeding mechanisms of cementing or gluing machines.



determine whether supplies need replenishment.

- Move stock or scrap to and from machines manually, or by using carts, handtrucks, or lift trucks.
- Operate cranes, or signal crane operators to position or remove stone from cars or saw beds.
- Position stock along cutting lines, or against stops on beds of scoring or cutting machines.
- Position width gauge blocks between blades, and level blades and insert wedges into frames to secure blades to frames.
- Press buttons, pull levers, or depress pedals to start and operate cutting and slicing machines.
- Remove completed materials or products from cutting or slicing machines, and stack or store them for additional processing.
- Remove defective or substandard materials from machines, and readjust machine components so that products meet standards.
- Review work orders, blueprints, specifications, or job samples to determine components, settings, and adjustments for cutting and slicing machines.
- Select and install machine components such as cutting blades, rollers, and templates, according to specifications, using hand tools.
- Set up, operate, or tend machines that cut or slice materials, such as glass, stone, cork, rubber, tobacco, food, paper, or insulating material.
- Sharpen cutting blades, knives, or saws, using files, bench grinders, or honing stones.
- Stack and sort cut material for packaging, further processing, or shipping, according to types and sizes of material.
- Start machines to verify setups, and make any necessary adjustments.
- Start pumps to circulate water and abrasives onto blades or cables during cutting.
- Tighten pulleys or add abrasives to maintain cutting speeds.
- Turn cranks or press buttons to activate winches that move cars under sawing cables or saw frames.
- Type instructions on computer keyboards, push buttons to activate computer programs, or manually set cutting guides, clamps, and knives.
- Wash stones, using water hoses.

Detailed Tasks

- Observe gauges, meters, and control panels to obtain information about equipment temperatures and pressures, or the speed of feeders or conveyors.
- Perform test production runs and make adjustments as necessary to ensure that completed products meet standards and specifications.
- Read work orders and communicate with coworkers in order to determine machine and equipment settings and adjustments, and supply and product specifications.
- Remove and stack completed materials or products, and restock materials to be joined.
- Remove jammed materials from machines and readjust components as necessary to resume normal operations.
- Start machines, and turn valves or move controls to feed, admit, apply, or transfer materials and adhesives, and to adjust temperature, pressure, and time settings.
- Transport materials, supplies, and finished products between storage and work areas, using forklifts.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- apply adhesives, caulking, sealants, or coatings
- clean equipment or machinery
- confer with engineering, technical or manufacturing personnel
- examine products or work to verify conformance to specifications
- load or unload material or workpiece into machinery
- maintain consistent production quality
- maintain or repair industrial or related equipment/machinery
- maintain production or work records
- measure, weigh, or count products or materials
- mix paint, ingredients, or chemicals, according to specifications
- monitor production machinery/equipment operation to detect problems
- operate forklift
- operate glass or stone working equipment/machinery
- operate metal or plastic fabricating equipment/machinery
- operate printing equipment/machinery
- operate pulp or paper making equipment
- operate textile production equipment/machinery



Detailed Work Activities:

- adjust production equipment/machinery setup
- attach or mark identification onto products or containers
- clean equipment or machinery
- cut or shape stone, tile, brick, or related material
- direct and coordinate activities of workers or staff
- examine products or work to verify conformance to specifications
- install equipment or attachments on machinery or related structures
- load or unload material or workpiece into machinery
- load, unload, or stack containers, materials, or products
- maintain consistent production quality
- maintain or repair industrial or related equipment/machinery
- maintain production or work records
- measure, weigh, or count products or materials
- monitor production machinery/equipment operation to detect problems
- operate forklift
- operate glass or stone working equipment/machinery
- operate hoist, winch, or hydraulic boom
- operate metal or plastic fabricating equipment/machinery
- operate woodworking equipment/machinery
- perform safety inspections in manufacturing or industrial setting
- read blueprints
- read specifications
- read technical drawings
- read work order, instructions, formulas, or processing charts
- set up production equipment or machinery
- signal directions or warnings to coworkers
- sort manufacturing materials or products
- understand technical operating, service or repair manuals
- use hand or power tools
- use hand or power woodworking tools
- use precision measuring tools or equipment
- work as a team member

- operate woodworking equipment/machinery
- perform safety inspections in manufacturing or industrial setting
- prepare building surfaces for paint, finishes, wallpaper, or adhesives
- read work order, instructions, formulas, or processing charts
- use hand or power tools
- use precision measuring tools or equipment

Labor Market Comparison



Description	Cutting and Slicing Machine Setters, Operators, and Tenders	Cementing and Gluing Machine Operators and Tenders	Difference
Median Wage	\$ 31,350	\$ 27,620	\$(3,730)
10th Percentile Wage	\$ 23,000	\$ 20,120	\$(2,880)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 43,790	\$ 30,470	\$(13,320)
90th Percentile Wage	\$ 49,280	\$ 32,670	\$(16,610)
Mean Wage	\$ 34,670	\$ 26,990	\$(7,680)
Total Employment - 2007	710	80	-630
Employment Base - 2006	767	78	-689
Projected Employment - 2016	593	66	-527
Projected Job Growth - 2006-2016	-22.7 %	-15.4 %	7.3 %
Projected Annual Openings - 2006-2016	12	2	-10

National Job Posting Trends

Trend for Cutting and Slicing Machine Setters, Operators, and Tenders

Trend for Cementing and Gluing Machine Operators and Tenders



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

Recommended Programs



Industrial Machinery Main. and Repairer

Industrial Mechanics and Maintenance Technology. A program that prepares individuals to apply technical knowledge and skills to repair and maintain industrial machinery and equipment such as cranes, pumps, engines and motors, pneumatic tools, conveyor systems, production machinery, marine deck machinery, and steam propulsion, refinery, and pipeline-distribution systems.

Institution	Address	City	URL
Kennebec Valley Community College	92 Western Ave	Fairfield	www.kvcc.me.edu

Maine Statewide Promotion Opportunities for Cutting and Slicing Machine Setters, Operators, and Tenders

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
51-9032.00	Cutting and Slicing Machine Setters, Operators, and Tenders	100	2	710	\$31,350.00	\$0.00	-23%	12
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	90	2	910	\$38,230.00	\$6,880.00	-26%	23
51-4023.00	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	87	2	0	\$33,460.00	\$2,110.00	0%	0
51-9023.00	Mixing and Blending Machine Setters, Operators, and Tenders	86	1	420	\$36,040.00	\$4,690.00	-9%	7
51-5021.00	Job Printers	86	3	140	\$31,890.00	\$540.00	-10%	2
51-9051.00	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	86	2	300	\$32,980.00	\$1,630.00	-18%	9
51-9121.00	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	86	2	850	\$38,860.00	\$7,510.00	-26%	19
51-4034.00	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	85	3	110	\$34,350.00	\$3,000.00	-9%	2
51-4121.07	Solderers and Brazers	85	2	1,610	\$38,030.00	\$6,680.00	7%	49



51-4193.00	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	84	2	120	\$32,160.00	\$810.00	16%	5
51-4191.00	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	84	2	40	\$32,470.00	\$1,120.00	-6%	1
51-9011.00	Chemical Equipment Operators and Tenders	84	2	0	\$38,790.00	\$7,440.00	-2%	5
51-2021.00	Coil Winders, Tapers, and Finishers	83	2	90	\$31,910.00	\$560.00	-53%	1
51-4032.00	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	83	2	100	\$33,030.00	\$1,680.00	-22%	2
51-4122.00	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	82	2	120	\$36,960.00	\$5,610.00	2%	3

Top Industries for Cementing and Gluing Machine Operators and Tenders

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Converted paper product manufacturing	322200	26.71%	6,240	5,237	-16.08%
Plastics product manufacturing	326100	12.37%	2,891	3,064	6.00%
Printing and related support activities	323100	10.88%	2,542	2,014	-20.77%
Veneer, plywood, and engineered wood product manufacturing	321200	7.53%	1,759	1,916	8.89%
Other wood product manufacturing	321900	7.01%	1,639	1,544	-5.77%
Rubber product manufacturing	326200	4.68%	1,094	773	-29.39%
Household and institutional furniture manufacturing	337120	3.71%	866	659	-23.91%
Wood kitchen cabinet and countertop manufacturing	337110	2.74%	640	708	10.72%
Office furniture (including fixtures) manufacturing	337200	2.26%	529	497	-5.97%
Pulp, paper, and paperboard mills	322100	1.68%	392	272	-30.64%
Motor vehicle body and trailer manufacturing	336200	1.57%	366	358	-2.15%



Cut and sew apparel manufacturing	315200	1.03%	240	101	-57.77%
Other furniture related product manufacturing	337900	0.97%	226	236	4.40%
Pharmaceutical and medicine manufacturing	325400	0.90%	211	266	26.03%
Footwear manufacturing	316200	0.89%	208	97	-53.16%

Top Industries for Cutting and Slicing Machine Setters, Operators, and Tenders

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Converted paper product manufacturing	322200	15.71%	12,381	10,390	-16.08%
Printing and related support activities	323100	12.36%	9,738	7,716	-20.77%
Plastics product manufacturing	326100	8.03%	6,327	6,707	6.00%
Pulp, paper, and paperboard mills	322100	5.55%	4,376	3,036	-30.64%
Animal slaughtering and processing	311600	5.30%	4,180	4,770	14.13%
Rubber product manufacturing	326200	4.91%	3,867	2,731	-29.39%
Glass and glass product manufacturing	327200	4.39%	3,461	3,020	-12.76%
Fruit and vegetable preserving and specialty food manufacturing	311400	2.17%	1,712	1,552	-9.33%
Other food manufacturing	311900	1.83%	1,441	1,511	4.85%
Bakeries and tortilla manufacturing	311800	1.60%	1,262	1,289	2.15%
Self-employed workers, primary job	000601	1.56%	1,230	1,311	6.54%
Dairy product manufacturing	311500	1.52%	1,197	1,185	-1.07%
Other chemical product and preparation manufacturing	325900	1.41%	1,108	872	-21.33%
Fabric mills	313200	1.06%	833	588	-29.38%
Veneer, plywood, and engineered wood product manufacturing	321200	0.81%	637	694	8.89%