



TORO Analysis of Machine Feeders and Offbearers to Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders

INPUT SECTION:

Transfer	Title	O* NET	Filters		
From Title:	Machine Feeders and Offbearers	53-7063.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	51-9041.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

OUTPUT SECTION:

Grand TORQ:

90

Ability TORQ		Skills TORQ		Knowledge TORQ	
Level	90	Level	86	Level	96

Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Visualization	53	14	53	Active Listening	50	17	72	No Knowledge Upgrades Required!			
Auditory Attention	50	13	56	Troubleshooting	53	15	72				
Far Vision	46	9	62	Equipment Maintenance	58	14	69				
Information Ordering	46	7	56	Operation Monitoring	57	6	76				
Perceptual Speed	50	6	65	Operation and Control	55	3	74				
Speech Recognition	41	6	56								
Stamina	34	6	50								
Visual Color Discrimination	37	5	53								
Oral Comprehension	46	4	50								
Deductive Reasoning	41	4	50								
Reaction Time	51	3	65								
Problem Sensitivity	42	3	56								
Hearing Sensitivity	42	3	56								
Depth Perception	42	3	53								
Rate Control	46	2	72								
Finger Dexterity	48	2	59								
Selective Attention	46	2	56								



Speech Clarity	37	2	53
Oral Expression	44	2	50

LEVEL and IMPT (IMPORTANCE) refer to the Target Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders. GAP refers to level difference between Machine Feeders and Offbearers and Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders.

ASK ANALYSIS

Ability Level Comparison - Abilities with importance scores over 50

Description	Machine Feeders and Offbearers	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	Importance
Rate Control	44	46	72
Perceptual Speed	44	50	65
Reaction Time	48	51	65
Arm-Hand Steadiness	44	44	62
Far Vision	37	46	62
Manual Dexterity	46	46	59
Finger Dexterity	46	48	59
Control Precision	53	46	59
Multilimb Coordination	46	46	59
Near Vision	46	46	59
Problem Sensitivity	39	42	56
Information Ordering	39	46	56
Selective Attention	44	46	56
Hearing Sensitivity	39	42	56
Auditory Attention	37	50	56
Speech Recognition	35	41	56
Visualization	39	53	53
Static Strength	46	46	53
Visual Color Discrimination	32	37	53
Depth Perception	39	42	53
Speech Clarity	35	37	53
Oral Comprehension	42	46	50
Oral Expression	42	44	50
Deductive Reasoning	37	41	50
Category Flexibility	39	37	50
Trunk Strength	44	42	50
Stamina	28	34	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Machine Feeders and Offbearers	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	Importance
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Operation Monitoring	51	57	76
Operation and Control	52	55	74
Active Listening	33	50	72
Troubleshooting	38	53	72
Equipment Maintenance	44	58	69
Knowledge Level Comparison - Knowledge with importance scores over 69			
Description	Machine Feeders and Offbearers	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	Importance

Experience & Education Comparison			
Related Work Experience Comparison		Required Education Level Comparison	
Description	Machine Feeders and Offbearers	Description	Machine Feeders and Offbearers
10+ years	0% 4%	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	0% 0%	Master's Degree	0% 0%
2-4 years	0% 4%	Post-Bachelor Cert	0% 0%
1-2 years	8% 28%	Bachelors	0% 0%
6-12 months	0% 44%	AA or Equiv	7% 0%
3-6 months	11% 0%	Some College	0% 0%
1-3 months	3% 0%	Post-Secondary Certificate	8% 9%
0-1 month	26% 0%	High School Diploma or GED	61% 77%
None	48% 18%	No HSD or GED	22% 13%
Machine Feeders and Offbearers		Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	
Most Common Educational/Training Requirement:			
Short-term on-the-job training		Moderate-term on-the-job training	
Job Zone Comparison			
1 - Job Zone One: Little or No Preparation Needed		2 - Job Zone Two: Some Preparation Needed	
<p>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.</p> <p>These occupations may require a high school diploma or GED certificate. Some may require a formal training course to obtain a license.</p> <p>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.</p>		<p>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.</p> <p>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.</p> <p>Employees in these occupations need anywhere from a few months to one year of working with experienced employees.</p>	



Tasks

Machine Feeders and Offbearers

Core Tasks

Generalized Work Activities:

- 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.
- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- Monitor Processes, Materials, or Surroundings - Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.
- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).

Specific Tasks

Occupation Specific Tasks:

- Add chemicals, solutions, or ingredients to machines or equipment as required by the manufacturing process.
- Clean and maintain machinery, equipment, and work areas to ensure proper functioning and safe working conditions.
- Fasten, package, or stack materials and products, using hand tools and fastening equipment.
- Identify and mark materials, products, and samples, following instructions.
- Inspect materials and products for defects, and to ensure conformance to specifications.
- Load materials and products into machines and equipment, or onto conveyors, using hand tools and moving devices.
- Open and close gates of belt and pneumatic conveyors on machines that are fed directly from preceding machines.
- Push dual control buttons and move controls in order to start, stop, or adjust machinery and equipment.
- Record production and operational data, such as amount of materials processed.

Extruding, Forming, Pressing, and Compacting 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).
- Identifying Objects, Actions, and Events - Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
- 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:

- Activate machines to shape or form products such as candy bars, light bulbs, balloons, or insulation panels.
- Adjust machine components to regulate speeds, pressures, and temperatures, and amounts, dimensions, and flow of materials or ingredients.
- Clean dies, arbors, compression chambers, and molds, using swabs, sponges, or air hoses.
- Clear jams, and remove defective or substandard materials or products.
- Complete work tickets, and place them with products.
- Couple air and gas lines to machines to maintain plasticity of material and to regulate solidification of final products.
- Disassemble equipment to repair it or to replace parts such as nozzles, punches, and filters.
- Examine, measure, and weigh materials or products to verify conformance to standards, using measuring devices such as templates, micrometers, or scales.
- Feed products into machines by hand or conveyor.
- Ignite burners to preheat products, or use torches to apply heat.



- Remove materials and products from machines and equipment, and place them in boxes, trucks or conveyors, using hand tools and moving devices.
- Shovel or scoop materials into containers, machines, or equipment for processing, storage, or transport.
- Transfer materials and products to and from machinery and equipment, using industrial trucks or hand trucks.
- Weigh or measure materials or products to ensure conformance to specifications.

Detailed Tasks

Detailed Work Activities:

- attach or mark identification onto products or containers
- clean equipment or machinery
- clean rooms or work areas
- examine products or work to verify conformance to specifications
- load or unload material or workpiece into machinery
- load, unload, or stack containers, materials, or products
- maintain production or work records
- measure, weigh, or count products or materials
- move or fit heavy objects
- operate hoist, winch, or hydraulic boom
- perform safety inspections in manufacturing or industrial setting
- sort manufacturing materials or products
- use hand or power tools

- Install, align, and adjust neck rings, press plungers, and feeder tubes.
- Measure arbors and dies to verify sizes specified on work tickets.
- Measure, mix, cut, shape, soften, and join materials and ingredients such as powder, cornmeal, or rubber in order to prepare them for machine processing.
- Monitor machine operations and observe lights and gauges in order to detect malfunctions.
- Move materials, supplies, components, and finished products between storage and work areas, using work aids such as racks, hoists, and handtrucks.
- Notify supervisors when extruded filaments fail to meet standards.
- Pour, scoop, or dump specified ingredients, metal assemblies, or mixtures into sections of machine prior to starting machines.
- Press control buttons to activate machinery and equipment.
- Record and maintain production data such as meter readings, and quantities, types, and dimensions of materials produced.
- Remove materials or products from molds or from extruding, forming, pressing, or compacting machines, and stack or store them for additional processing.
- Remove molds, mold components, and feeder tubes from machinery after production is complete.
- Review work orders, specifications, or instructions to determine materials, ingredients, procedures, components, settings, and adjustments for extruding, forming, pressing, or compacting machines.
- Select and install machine components such as dies, molds, and cutters, according to specifications, using hand tools and measuring devices.
- Send product samples to laboratories for analysis.
- Swab molds with solutions to prevent products from sticking.
- Synchronize speeds of sections of machines when producing products involving several steps or processes.
- Thread extruded strips through water tanks and hold-down bars, or attach strands to wires and draw them through tubes.
- Turn controls to adjust machine functions, such as regulating air pressure, creating vacuums, and adjusting coolant flow.

Detailed Tasks



Detailed Work Activities:

- adjust production equipment/machinery setup
- clean equipment or machinery
- collect samples for testing
- confer with engineering, technical or manufacturing personnel
- construct molds
- 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
- mix paint, ingredients, or chemicals, according to specifications
- monitor production machinery/equipment operation to detect problems
- operate chemical processing equipment
- operate food processing production equipment/machinery
- operate glass or stone working equipment/machinery
- operate hoist, winch, or hydraulic boom
- operate metal or plastic fabricating equipment/machinery
- operate pulp or paper making equipment
- operate woodworking equipment/machinery
- read specifications
- read work order, instructions, formulas, or processing charts
- set up production equipment or machinery
- test manufactured products or materials
- use hand or power tools
- use precision measuring tools or equipment

Labor Market Comparison

Description	Machine Feeders and Offbearers	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	Difference
Median Wage	\$ 26,820	\$ 28,330	\$ 1,510
10th Percentile Wage	\$ 19,120	\$ 17,200	\$(1,920)



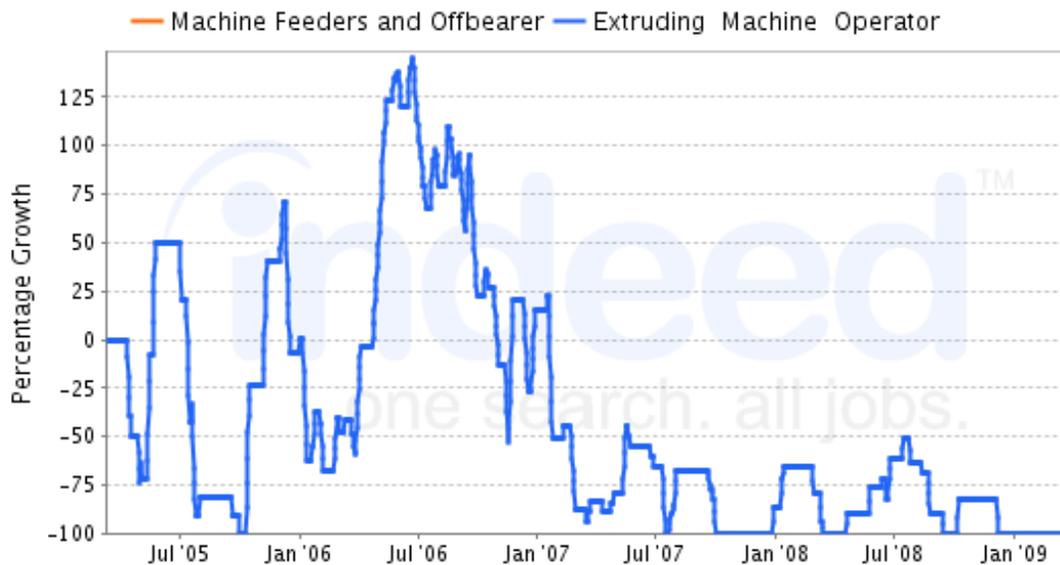
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 29,840	\$ 35,290	\$ 5,450
90th Percentile Wage	\$ 35,200	\$ 44,260	\$ 9,060
Mean Wage	\$ 26,870	\$ 29,370	\$ 2,500
Total Employment - 2007	480	260	-220
Employment Base - 2006	485	272	-213
Projected Employment - 2016	378	252	-126
Projected Job Growth - 2006-2016	-22.1 %	-7.4 %	14.7 %
Projected Annual Openings - 2006-2016	9	5	-4

National Job Posting Trends

Trend for Machine Feeders and Offbearers

Trend for Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders

Job Trends from Indeed.com



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

Recommended Programs

Machinist/Machine Technologist

Machine Tool Technology/Machinist. A program that prepares individuals to apply technical knowledge and skills to plan, manufacture, assemble, test, and repair parts, mechanisms, machines, and structures in which materials are cast, formed, shaped, molded, heat treated, cut, twisted, pressed, fused, stamped or worked.



Institution	Address	City	URL
Central Maine Community College	1250 Turner St	Auburn	www.cmcc.edu
Central Maine Community College	1250 Turner St	Auburn	www.cmcc.edu
Eastern Maine Community College	354 Hogan Rd	Bangor	www.emcc.edu
Eastern Maine Community College	354 Hogan Rd	Bangor	www.emcc.edu
Kennebec Valley Community College	92 Western Ave	Fairfield	www.kvcc.me.edu
Kennebec Valley Community College	92 Western Ave	Fairfield	www.kvcc.me.edu
Northern Maine Community College	33 Edgemont Dr	Presque Isle	www.nmcc.edu
Southern Maine Community College	2 Fort Road	South Portland	www.smccME.edu

Sheet Metal Worker

Sheet Metal Technology/Sheetworking. A program that prepares individuals to apply technical knowledge and skills to form, shape, bend and fold extruded metals, including the creation of new products, using hand tools and machines such as cornice brakes, forming rolls, and squaring shears.

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

Maine Statewide Promotion Opportunities for Machine Feeders and Offbearers

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
53-7063.00	Machine Feeders and Offbearers	100	1	480	\$26,820.00	\$0.00	-22%	9
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	90	2	260	\$28,330.00	\$1,510.00	-7%	5
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	90	2	910	\$38,230.00	\$11,410.00	-26%	23
51-9051.00	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	88	2	300	\$32,980.00	\$6,160.00	-18%	9
51-2021.00	Coil Winders, Tapers, and Finishers	88	2	90	\$31,910.00	\$5,090.00	-53%	1
51-9032.00	Cutting and Slicing Machine Setters, Operators, and Tenders	87	2	710	\$31,350.00	\$4,530.00	-23%	12



51-9191.00	Cementing and Gluing Machine Operators and Tenders	87	1	80	\$27,620.00	\$800.00	-15%	2
51-4023.00	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	87	2	0	\$33,460.00	\$6,640.00	0%	0
51-4122.00	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	87	2	120	\$36,960.00	\$10,140.00	2%	3
51-9121.00	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	87	2	850	\$38,860.00	\$12,040.00	-26%	19
51-5021.00	Job Printers	86	3	140	\$31,890.00	\$5,070.00	-10%	2
51-9023.00	Mixing and Blending Machine Setters, Operators, and Tenders	86	1	420	\$36,040.00	\$9,220.00	-9%	7
51-4032.00	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	85	2	100	\$33,030.00	\$6,210.00	-22%	2
51-4034.00	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	85	3	110	\$34,350.00	\$7,530.00	-9%	2
51-4121.07	Solderers and Brazers	85	2	1,610	\$38,030.00	\$11,210.00	7%	49

Top Industries for Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Rubber product manufacturing	326200	18.33%	14,883	10,510	-29.39%
Cement and concrete product manufacturing	327300	11.55%	9,375	10,176	8.55%
Plastics product manufacturing	326100	8.23%	6,685	7,086	6.00%
Glass and glass product manufacturing	327200	5.04%	4,093	3,571	-12.76%
Clay product and refractory manufacturing	327100	4.14%	3,358	3,075	-8.41%
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	325200	3.99%	3,237	2,599	-19.73%



Converted paper product manufacturing	322200	3.67%	2,982	2,502	-16.08%
Pharmaceutical and medicine manufacturing	325400	3.01%	2,444	3,080	26.03%
Animal slaughtering and processing	311600	2.87%	2,329	2,658	14.13%
Soap, cleaning compound, and toilet preparation manufacturing	325600	2.17%	1,763	1,694	-3.92%
Veneer, plywood, and engineered wood product manufacturing	321200	2.10%	1,703	1,854	8.89%
Bakeries and tortilla manufacturing	311800	1.66%	1,350	1,379	2.15%
Sugar and confectionery product manufacturing	311300	1.59%	1,292	1,088	-15.77%
Pulp, paper, and paperboard mills	322100	1.56%	1,265	877	-30.64%
Other chemical product and preparation manufacturing	325900	1.36%	1,106	870	-21.34%

Top Industries for Machine Feeders and Offbearers

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Printing and related support activities	323100	8.45%	12,487	8,904	-28.69%
Newspaper publishers	511110	6.58%	9,719	7,493	-22.90%
Converted paper product manufacturing	322200	6.30%	9,315	7,036	-24.47%
Other wood product manufacturing	321900	5.62%	8,311	7,048	-15.19%
Plastics product manufacturing	326100	4.99%	7,369	7,030	-4.60%
Sawmills and wood preservation	321100	4.82%	7,129	5,144	-27.84%
Veneer, plywood, and engineered wood product manufacturing	321200	4.54%	6,716	6,582	-2.00%
Animal slaughtering and processing	311600	3.07%	4,541	4,664	2.71%
Pharmaceutical and medicine manufacturing	325400	2.77%	4,088	4,637	13.42%
Bakeries and tortilla manufacturing	311800	2.52%	3,716	3,417	-8.07%
Coating, engraving, heat treating, and allied activities	332800	1.91%	2,829	2,087	-26.23%
Pulp, paper, and paperboard mills	322100	1.76%	2,595	1,620	-37.57%
Fruit and vegetable preserving and specialty food manufacturing	311400	1.62%	2,389	1,949	-18.40%
Household and institutional furniture manufacturing	337120	1.43%	2,112	1,447	-31.52%
Glass and glass product manufacturing	327200	0.98%	1,450	1,139	-21.48%