



TORQ Analysis of Machine Feeders and Offbearers to Team Assemblers

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Machine Feeders and Offbearers	53-7063.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Team Assemblers	51-2092.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

TORQ RESULTS							
Grand TORQ:					90		
Ability TORQ		Skills TORQ		Knowledge TORQ			
Level	 90	Level	 82	Level	 97		
Gaps To Narrow if Possible				Upgrade These Skills		Knowledge to Add	
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt
Oral Comprehension	51	9	62	No Skills Upgrade Required!		No Knowledge Upgrades Required!	
Oral Expression	48	6	59				
Speech Recognition	41	6	50				
Speech Clarity	41	6	50				
Deductive Reasoning	41	4	50				
Information Ordering	42	3	56				
Problem Sensitivity	41	2	53				
LEVEL and IMPT (IMPORTANCE) refer to the Target Team Assemblers. GAP refers to level difference between Machine Feeders and Offbearers and Team Assemblers.							

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Machine Feeders and Offbearers	Team Assemblers	Importance
Oral Comprehension	42 	51 	 62
Manual Dexterity	46 	41 	 62
Oral Expression	42 	48 	 59
Information Ordering	39 	42 	 56
Arm-Hand Steadiness	44 	39 	 56



Finger Dexterity	46	42	56
Near Vision	46	44	56
Problem Sensitivity	39	41	53
Control Precision	53	44	53
Written Expression	39	37	50
Deductive Reasoning	37	41	50
Speech Recognition	35	41	50
Speech Clarity	35	41	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Machine Feeders and Offbearers	Team Assemblers	Importance
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Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Machine Feeders and Offbearers	Team Assemblers	Importance
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Experience & Education Comparison

Related Work Experience Comparison				Required Education Level Comparison		
Description	Machine Feeders and Offbearers	Team Assemblers		Description	Machine Feeders and Offbearers	Team Assemblers
10+ years	0%	0%		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%	6%		Bachelors	0%	0%
6-12 months	0%	10%		AA or Equiv	7%	0%
3-6 months	11%	2%		Some College	0%	1%
1-3 months	3%	6%		Post-Secondary Certificate	8%	11%
0-1 month	26%	17%		High School Diploma or GED	61%	63%
None	48%	50%		No HSD or GED	22%	22%

Machine Feeders and Offbearers

Team Assemblers

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

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.

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.

These occupations may require a high school diploma or GED certificate. Some may require a formal training course to obtain a license.

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 need anywhere from a few days to a few months of training. Usually, an experienced worker could show you how to do the job.

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

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.
- Remove materials and products from machines and equipment, and place them

Team Assemblers

Core Tasks

Generalized Work Activities:

- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Communicating with Supervisors, Peers, or Subordinates - Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- Identifying Objects, Actions, and Events - Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.

Specific Tasks

Occupation Specific Tasks:

- Determine work assignments and procedures.
- Operate heavy equipment such as forklifts.
- Provide assistance in the production of wiring assemblies.
- Rotate through all the tasks required in a particular production process.
- Shovel and sweep work areas.

Detailed Tasks

Detailed Work Activities:

- confer with engineering, technical or manufacturing personnel
- direct and coordinate activities of workers or staff
- examine products or work to verify conformance to specifications
- fabricate, assemble, or disassemble manufactured products by hand
- perform safety inspections in manufacturing or industrial setting
- read work order, instructions, formulas, or processing charts
- use computers to enter, access or retrieve



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

data

- use hand or power tools
- work as a team member

Tools - Examples

- Adjustable wrenches
- Bearing installation tools
- Bench vises
- Welding torches
- Dial calipers
- Metal chisels
- Dividers
- Burring tools
- Desktop computers
- Protective ear muffs
- Protective ear plugs
- Engine repair stands
- Fiber reinforced polymer FRP rollers
- Feeler gauges
- Hand files
- Torque angle meters
- Forklifts
- Arc welding equipment
- Dial indicators
- Vacuum bags
- Grinding machines
- Material guiding jigs
- Claw hammers
- Hand clamps
- Heat guns
- Pin protrusion gauges
- Allen wrenches
- Power hoists
- Ring squeezers



- Hydraulic press frames
- Power wrenches
- Heating furnaces
- Threaded insert tools
- Hand jacks
- Heat lamps
- Ladders
- Lathes
- Transits
- Locking pliers
- End milling machines
- Plastic mallets
- Metal inert gas MIG welders
- Electrochemical etching devices
- Micrometers
- Computerized numerical control CNC metal-cutting machines
- Milling machines
- Needlenose pliers
- Nut drivers
- Paint application brushes
- Paint application rollers
- High-volume low-pressure HVLP spray guns
- Curing ovens
- Assembly robots
- Rotating mandrels
- Tube cutters
- Flame cutters
- Pneumatic drills
- First assembly jigs
- Power chippers
- Cordless drills
- Bench grinders



- Edge planers
- Belt sanders
- Cutoff saws
- Power drivers
- Anti-vibration gloves
- Protractors
- Pry bars
- Gear pullers
- Center punches
- Ratchets
- Line reamers
- Chopper guns
- Respirators
- Snap ring pliers
- Alligator jaw compression riveters
- Steel rules
- Safety glasses
- Scaffolding
- Straight screwdrivers
- Scribes
- Adhesive application robots
- Beverly shears
- Socket wrenches
- Soldering guns
- Spanner wrenches
- Case wrenches
- Timing lights
- Layout squares
- Squeegees
- Bearing staking tools
- Measuring tapes
- Taps



- Drafting templates
- Tensiometers
- Fuel control wrenches
- Beading tools
- Crimping tools
- Lapping tools
- Tungsten inert gas TIG welding equipment
- Turnbuckles
- Radial drills
- Ultrasonic inspection equipment
- Trimming knives
- Vacuum pumps
- Wedges
- Tack welding equipment
- Welding hoods
- Welding robots
- Spot welding equipment
- Cable cutters
- Jib cranes
- Brakes

Labor Market Comparison

Maine Department of Labor.

Description	Machine Feeders and Offbearers	Team Assemblers	Difference
Median Wage	\$ 26,820	\$ 23,730	\$(3,090)
10th Percentile Wage	\$ 19,120	\$ 18,550	\$(570)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 29,840	\$ 28,380	\$(1,460)
90th Percentile Wage	\$ 35,200	\$ 32,810	\$(2,390)
Mean Wage	\$ 26,870	\$ 25,040	\$(1,830)
Total Employment - 2654	480	3,850	3,370
Employment Base - 2006	485	3,958	3,473
Projected Employment - 2663	378	3,691	3,313



Projected Job Growth - 2006-2663	-22.1 %	-6.7 %	15.3 %
Projected Annual Openings - 2006-2663	9	82	73
Special			
Special Occupations:			

National Job Posting Trends

Trend for Machine Feeders and Offbearers and Team Assemblers



Data from [Indeed](#)

Programs

Related Programs

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

Shoe, Boot and Leather Repairer

Machine Shop Technology/Assistant. A program that prepares individuals to apply technical knowledge and skills to fabricate and modify metal parts in support of other manufacturing, repair or design activities, or as an independent business.

No information on schools for the program

Window Treatment Maker and Installer

Electromechanical Technology/Electromechanical Engineering Technology. A program that prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in developing and testing automated, servomechanical, and other electromechanical systems. Includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures, and report preparation.

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

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	Special
53-7063.00	Machine Feeders and Offbearers	100	1	480	\$26,820.00	\$0.00	-22%	9	
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	90	2	910	\$38,230.00	\$11,410.00	-26%	23	
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	90	2	260	\$28,330.00	\$1,510.00	-7%	5	
51-9051.00	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	
51-4122.00	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	Mxing and Blending Machine Setters, Operators, and Tenders	86	1	420	\$36,040.00	\$9,220.00	-9%	7	
51-4121.07	Solderers and Brazers	85	2	1,610	\$38,030.00	\$11,210.00	7%	49	
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	
51-4032.00	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	85	2	100	\$33,030.00	\$6,210.00	-22%	2	



51-4022.00	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	84	2	20	\$28,330.00	\$1,510.00	-18%	1
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Special Occupations:

Top Industries for Team Assemblers

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Employment services	561300	15.68%	199,847	252,932	26.56%
Motor vehicle parts manufacturing	336300	7.79%	99,321	80,278	-19.17%
Motor vehicle manufacturing	336100	4.50%	57,395	57,191	-0.35%
Other wood product manufacturing	321900	3.65%	46,477	43,797	-5.77%
Motor vehicle body and trailer manufacturing	336200	3.47%	44,237	44,350	0.25%
Plastics product manufacturing	326100	3.40%	43,379	45,983	6.00%
Architectural and structural metals manufacturing	332300	2.80%	35,620	38,043	6.80%
Medical equipment and supplies manufacturing	339100	2.66%	33,860	34,635	2.29%
Other fabricated metal product manufacturing	332900	2.47%	31,442	27,859	-11.39%
Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	333400	2.41%	30,715	28,255	-8.01%
Other general purpose machinery manufacturing	333900	2.36%	30,035	27,113	-9.73%
Navigational, measuring, electromedical, and control instruments manufacturing	334500	1.84%	23,417	22,419	-4.26%
Agriculture, construction, and mining machinery manufacturing	333100	1.79%	22,809	21,297	-6.63%
Household appliance manufacturing	335200	1.65%	21,088	15,957	-24.33%
Semiconductor and other electronic component manufacturing	334400	1.65%	21,011	18,365	-12.59%

Top Industries for Machine Feeders and Offbearers

Industry	NAICS	% of 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%



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

ANALYSIS INPUT					
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

TORQ RESULTS			
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 Mbnitoring	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
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	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	Description	Machine Feeders and Offbearers	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders
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%
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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

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- 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.
- 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

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.
- 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



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

materials, mix, cut, shape, section, and join materials and ingredients such as powder, commmeal, 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

Maine Department of Labor.

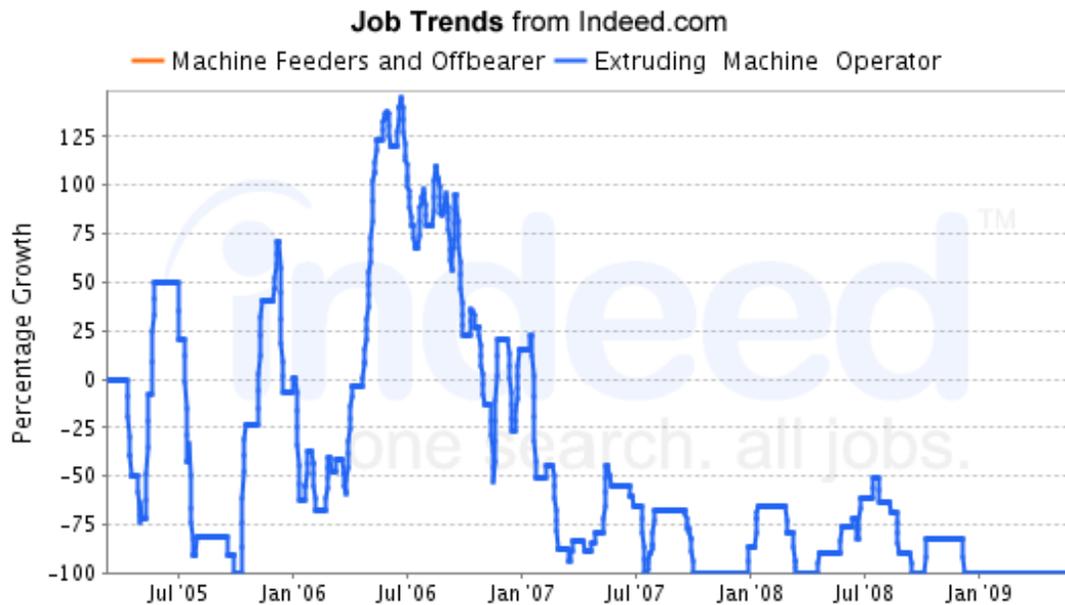
Description	Machine Feeders and Offbearers	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	Difference
Median Wage	\$ 26,820	\$ 28,330	\$ 1,510
10th Percentile Wage	\$ 19,120	\$ 17,200	\$(1,920)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 29,840	\$ 35,290	\$ 5,450
90th Percentile Wage	\$ 35,200	\$ 44,260	\$ 9,060
Mean Wage	\$ 26,870	\$ 29,370	\$ 2,500
Total Employment - 2654	480	260	-220
Employment Base - 2006	485	272	-213
Projected Employment - 2663	378	252	-126



Projected Job Growth - 2006-2663	-22.1 %	-7.4 %	14.7 %
Projected Annual Openings - 2006-2663	9	5	-4
Special			
Special Occupations:			

National Job Posting Trends

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



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

Programs

Related 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	Special
53-7063.00	Machine Feeders and Offbearers	100	1	480	\$26,820.00	\$0.00	-22%	9	
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	90	2	910	\$38,230.00	\$11,410.00	-26%	23	
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	90	2	260	\$28,330.00	\$1,510.00	-7%	5	
51-9051.00	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	
51-4122.00	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	
51-4121.07	Solderers and Brazers	85	2	1,610	\$38,030.00	\$11,210.00	7%	49	★
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	
51-4032.00	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	85	2	100	\$33,030.00	\$6,210.00	-22%	2	



51-4022.00	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	84	2	20	\$28,330.00	\$1,510.00	-18%	1
Special Occupations:								

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

Industry	NAICS	% of 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	% of 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%



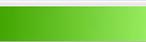
Sawmills and wood preservation	321100	4.82%	7,129	5,144	-27.84%
Veneer, plywood, and engineered wood product manufacturing	321200	4.54%	6,716	6,582	-2.00%
Animal slaughtering and processing	311600	3.07%	4,541	4,664	2.71%
Pharmaceutical and medicine manufacturing	325400	2.77%	4,088	4,637	13.42%
Bakeries 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%



TORQ Analysis of Machine Feeders and Offbearers to Sewing Machine Operators

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Machine Feeders and Offbearers	53-7063.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Sewing Machine Operators	51-6031.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

TORQ RESULTS							
Grand TORQ:					90		
Ability TORQ		Skills TORQ		Knowledge TORQ			
Level		92	Level		85		
Level			Level		94		
Gaps To Narrow if Possible			Upgrade These Skills		Knowledge to Add		
Ability	Level	Gap	Imp	Skill	Level	Gap	Imp
Visual Color Discrimination	46	14	56	No Skills Upgrade Required!		No Knowledge Upgrades Required!	
Arm-Hand Steadiness	51	7	65				
Near Vision	48	2	56				
LEVEL and IMPT (IMPORTANCE) refer to the Target Sewing Machine Operators. GAP refers to level difference between Machine Feeders and Offbearers and Sewing Machine Operators.							

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Machine Feeders and Offbearers	Sewing Machine Operators	Importance
Arm-Hand Steadiness	44 	51 	65 
Manual Dexterity	46 	42 	62 
Control Precision	53 	42 	62 
Rate Control	44 	39 	59 
Information Ordering	39 	37 	56 
Finger Dexterity	46 	44 	56 
Near Vision	46 	48 	56 
Visual Color Discrimination	32 	46 	56 
Problem Sensitivity	39 	39 	53 
Multilimb Coordination	46 	37 	53 
Deductive Reasoning	37 	35 	50 
Visualization	39 	39 	50 



Skill Level Comparison - Abilities with importance scores over 69

Description	Machine Feeders and Offbearers	Sewing Machine Operators	Importance
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Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Machine Feeders and Offbearers	Sewing Machine Operators	Importance
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Experience & Education Comparison

Related Work Experience Comparison				Required Education Level Comparison		
Description	Machine Feeders and Offbearers	Sewing Machine Operators	Description	Machine Feeders and Offbearers	Sewing Machine Operators	
10+ years	0%	0%	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%	8%	Master's Degree	0%	0%	
2-4 years	0%	13%	Post-Bachelor Cert	0%	0%	
1-2 years	8%	9%	Bachelors	0%	2%	
6-12 months	0%	11%	AA or Equiv	7%	0%	
3-6 months	11%	0%	Some College	0%	8%	
1-3 months	3%	5%	Post-Secondary Certificate	8%	2%	
0-1 month	26%	0%	High School Diploma or GED	61%	12%	
None	48%	51%	No HSD or GED	22%	73%	

Machine Feeders and Offbearers

Sewing Machine Operators

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

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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.

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These occupations may require a high school diploma or GED certificate. Some may require a formal training course to obtain a license.

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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.

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Tasks

Machine Feeders and Offbearers

Sewing Machine Operators

Core Tasks

Core Tasks

Generalized Work Activities:

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,

- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- 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



ing, 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.
- 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

and arms in handling, installing, positioning, and moving materials, and manipulating things.

- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- 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:

- Attach buttons, hooks, zippers, fasteners, or other accessories to fabric, using feeding hoppers or clamp holders.
- Attach tape, trim, appliques, or elastic to specified garments or garment parts, according to item specifications.
- Baste edges of material to align and temporarily secure parts for final assembly.
- Cut excess material or thread from finished products.
- Cut materials according to specifications, using blades, scissors, or electric knives.
- Draw markings or pin appliques on fabric to obtain variations in design.
- Examine and measure finished articles to verify conformance to standards, using rulers.
- Fold or stretch edges or lengths of items while sewing, in order to facilitate forming specified sections.
- Guide garments or garment parts under machine needles and presser feet to sew parts together.
- Inspect garments, and examine repair tags and markings on garments to locate defects or damage, and mark errors as necessary.
- Match cloth pieces in correct sequences prior to sewing them, and verify that dye lots and patterns match.
- Monitor machine operation to detect problems such as defective stitching, breaks in thread, or machine malfunctions.
- Mount attachments, such as needles, cutting blades, or pattern plates, and adjust machine guides according to specifications.
- Perform equipment maintenance tasks such as replacing needles, sanding rough areas of needles, or cleaning and oiling sewing machines.
- Perform specialized or automatic sewing machine functions, such as buttonhole making or tacking.
- Place spools of thread, cord, or other materials on spindles, insert bobbins, and thread ends through machine guides and components.
- Position and mark patterns on materials to prepare for sewing.
- Position items under needles, using marks on



- 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

machines, clamps, templates, or cloth as guides.

- Position material or articles in clamps, templates, or hoop frames prior to automatic operation of machines.
- Record quantities of materials processed.
- Remove holding devices and finished items from machines.
- Repair or alter items by adding replacement parts or missing stitches.
- Select supplies such as fasteners and thread, according to job requirements.
- Start and operate or tend machines, such as single or double needle serging and flat-bed felling machines, to automatically join, reinforce, or decorate material or articles.
- Tape or twist together thread or cord to repair breaks.
- Turn knobs, screws, and dials to adjust settings of machines, according to garment styles and equipment performance.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- clean equipment or machinery
- cut or trim fabric or leather
- 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
- maintain consistent production quality
- maintain production or work records
- monitor production machinery/equipment operation to detect problems
- operate sewing machine
- perform safety inspections in manufacturing or industrial setting
- read work order, instructions, formulas, or processing charts
- repair tears or defects in fabrics, garments, or leather products
- sew by hand
- use hand or power tools
- use portable electric fabric cutter

Labor Market Comparison

Maine Department of Labor.

Description	Machine Feeders and Offbearers	Sewing Machine Operators	Difference
Median Wage	\$ 26,820	\$ 22,440	\$(4,380)
10th Percentile Wage	\$ 19,120	\$ 16,350	\$(2,770)



25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 29,840	\$ 27,200	\$(2,640)
90th Percentile Wage	\$ 35,200	\$ 31,710	\$(3,490)
Mean Wage	\$ 26,870	\$ 23,030	\$(3,840)
Total Employment - 2654	480	1,080	600
Employment Base - 2006	485	1,077	592
Projected Employment - 2663	378	990	612
Projected Job Growth - 2006-2663	-22.1 %	-8.1 %	14.0 %
Projected Annual Openings - 2006-2663	9	10	1
Special			
Special Occupations:			

National Job Posting Trends

Trend for Machine Feeders and Offbearers and Sewing Machine Operators



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

Programs

No information on programs or the occupation.

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	Special
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	
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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	
51-4011.00	Computer-Controlled Machine Tool Operators, Metal and Plastic	84	2	720	\$40,490.00	\$13,670.00	6%	12	

Special Occupations:



Top Industries for Sewing Machine Operators

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Cut and sew apparel manufacturing	315200	37.46%	87,218	36,829	-57.77%
Other textile product mills	314900	8.50%	19,797	17,782	-10.18%
Textile furnishings mills	314100	7.91%	18,422	16,690	-9.40%
Self-employed workers, primary job	000601	7.29%	16,967	18,076	6.54%
Household and institutional furniture manufacturing	337120	6.35%	14,794	12,383	-16.30%
Apparel accessories and other apparel manufacturing	315900	2.75%	6,400	4,026	-37.09%
Apparel knitting mills	315100	2.14%	4,987	2,805	-43.75%
Medical equipment and supplies manufacturing	339100	2.01%	4,674	4,781	2.29%
Other furniture related product manufacturing	337900	1.88%	4,384	4,577	4.40%
Printing and related support activities	323100	1.73%	4,029	3,192	-20.77%
Motor vehicle parts manufacturing	336300	1.48%	3,443	2,741	-20.39%
Fabric mills	313200	1.36%	3,162	2,233	-29.38%
Drycleaning and laundry services	812300	1.35%	3,133	3,133	0.01%
Clothing stores	448100	1.31%	3,053	2,973	-2.63%
Footwear manufacturing	316200	0.92%	2,134	1,000	-53.16%

Top Industries for Machine Feeders and Offbearers

Industry	NAICS	% of 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%



TORQ Analysis of Machine Feeders and Offbearers to Paper Goods Machine Setters, Operators, and Tenders

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Machine Feeders and Offbearers	53-7063.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Paper Goods Machine Setters, Operators, and Tenders	51-9196.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

TORQ RESULTS														
Grand TORQ:												90		
Ability TORQ				Skills TORQ				Knowledge TORQ						
Level				93	Level				81	Level				96
Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add						
Ability	Level	Gap	Imp	Skill	Level	Gap	Imp	Knowledge	Level	Gap	Imp			
Auditory Attention	46	9	50	Critical Thinking	60	18	74	English Language	40	5	71			
Information Ordering	42	3	53	Reading Comprehension	54	19	69							
Near Vision	48	2	56	Learning Strategies	64	18	69							
Oral Comprehension	44	2	53	Equipment Maintenance	58	14	74							
				Operation Monitoring	62	11	78							
				Quality Control Analysis	50	11	70							
				Operation and Control	60	8	75							
<p>LEVEL and IMPT (IMPORTANCE) refer to the Target Paper Goods Machine Setters, Operators, and Tenders. GAP refers to level difference between Machine Feeders and Offbearers and Paper Goods Machine Setters, Operators, and Tenders.</p>														

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Machine Feeders and Offbearers	Paper Goods Machine Setters, Operators, and Tenders	Importance
Problem Sensitivity	39 	39 	59 
Arm-Hand Steadiness	44 	42 	59 
Selective Attention	44 	44 	56 
Control Precision	53 	48 	56 
Near Vision	46 	48 	56 
Oral Comprehension	42 	44 	53 



Information Ordering	39	42	53
Manual Dexterity	46	41	53
Finger Dexterity	46	42	53
Oral Expression	42	42	50
Deductive Reasoning	37	37	50
Auditory Attention	37	46	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Machine Feeders and Offbearers	Paper Goods Machine Setters, Operators, and Tenders	Importance
Operation Monitoring	51	62	78
Operation and Control	52	60	75
Critical Thinking	42	60	74
Equipment Maintenance	44	58	74
Quality Control Analysis	39	50	70
Reading Comprehension	35	54	69
Learning Strategies	46	64	69

Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Machine Feeders and Offbearers	Paper Goods Machine Setters, Operators, and Tenders	Importance
English Language	35	40	71

Experience & Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Machine Feeders and Offbearers	Paper Goods Machine Setters, Operators, and Tenders	Description	Machine Feeders and Offbearers	Paper Goods Machine Setters, Operators, and Tenders
10+ years	0%	0%	Doctoral	0%	0%
8-10 years	0%	3%	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%	0%	Post-Bachelor Cert	0%	0%
1-2 years	8%	41%	Bachelors	0%	0%
6-12 months	0%	1%	AA or Equiv	7%	0%
3-6 months	11%	5%	Some College	0%	0%
1-3 months	3%	16%	Post-Secondary Certificate	8%	0%
0-1 month	26%	3%	High School Diploma or GED	61%	74%
None	48%	27%	No HSD or GED	22%	24%

Machine Feeders and Offbearers

Paper Goods 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



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 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 days to a few months of training. Usually, an experienced worker could show you how to do 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.

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 need anywhere from a few months to one year of working with experienced employees.

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.

Paper Goods 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).
- Monitor Processes, Materials, or Surroundings - Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.

Specific Tasks

Occupation Specific Tasks:

- Adjust guide assemblies, forming bars, and folding mechanisms according to specifications, using hand tools.
- Cut products to specified dimensions, using hand or power cutters.
- Disassemble machines to maintain, repair, or replace broken or worn parts, using hand or power tools.
- Examine completed work to detect defects and verify conformance to work orders, and adjust machinery as necessary to correct production problems.
- Fill glue and paraffin reservoirs, and position rollers to dispense glue onto paperboard.
- Install attachments to machines for gluing, folding, printing, or cutting.
- Lift tote boxes of finished cartons, and dump cartons into feed hoppers.
- Load automatic stapling mechanisms.
- Measure, space, and set saw blades, cutters, and perforators, according to product



- 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.
- 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

specifications.

- Monitor finished cartons as they drop from forming machines into rotating hoppers and then into gravity feed chutes, in order to prevent jamming.
- Observe operation of various machines to detect and correct machine malfunctions such as improper forming, glue flow, or pasteboard tension.
- Place rolls of paper or cardboard on machine feedtracks, and thread paper through gluing, coating, and slitting rollers.
- Remove finished cores, and stack or place them on conveyors for transfer to other work areas.
- Stamp products with information such as dates, using hand stamps or automatic stamping devices.
- Start machines and move controls to regulate tension on pressure rolls, to synchronize speed of machine components, and to adjust temperatures of glue or paraffin.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- 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
- monitor production machinery/equipment operation to detect problems
- move or fit heavy objects
- operate pulp or paper making equipment
- read specifications
- read work order, instructions, formulas, or processing charts
- set up production equipment or machinery
- understand technical operating, service or repair manuals
- use hand or power tools
- use precision measuring tools or equipment

Labor Market Comparison

Maine Department of Labor.

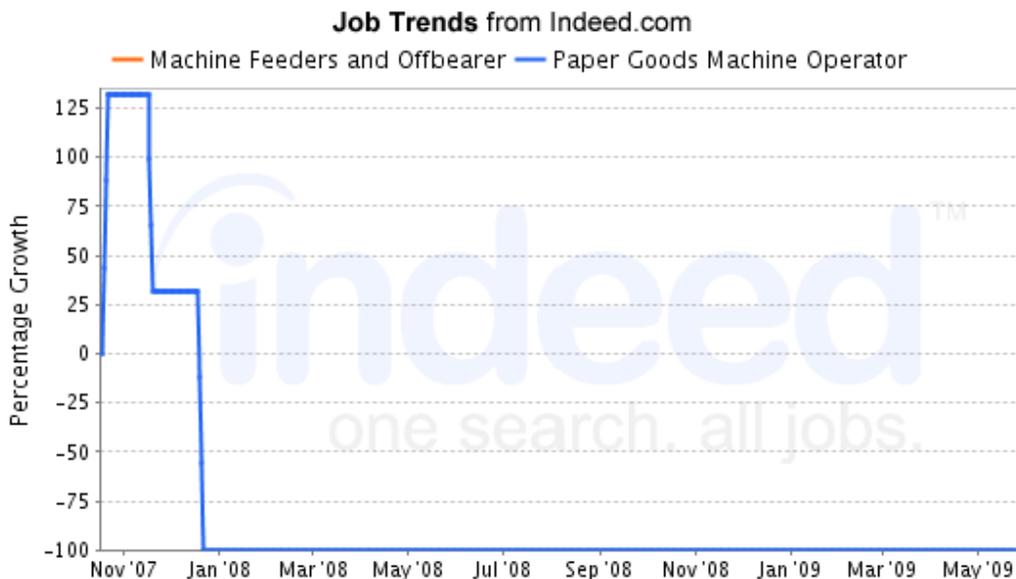
Description	Machine Feeders and Offbearers	Paper Goods Machine Setters, Operators, and Tenders	Difference
Median Wage	\$ 26,820	\$ 38,230	\$ 11,410



10th Percentile Wage	\$ 19,120	\$ 25,850	\$ 6,730
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 29,840	\$ 45,200	\$ 15,360
90th Percentile Wage	\$ 35,200	\$ 51,680	\$ 16,480
Mean Wage	\$ 26,870	\$ 38,330	\$ 11,460
Total Employment - 2654	480	910	430
Employment Base - 2006	485	951	466
Projected Employment - 2663	378	700	322
Projected Job Growth - 2006-2663	-22.1 %	-26.4 %	-4.3 %
Projected Annual Openings - 2006-2663	9	23	14
Special			
Special Occupations:			

National Job Posting Trends

Trend for Machine Feeders and Offbearers and Paper Goods Machine Setters, Operators, and Tenders



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

Programs

No information on programs or the occupation.



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	Special
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	
51-4122.00	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	
51-4121.07	Solderers and Brazers	85	2	1,610	\$38,030.00	\$11,210.00	7%	49	★
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
51-4011.00	Computer-Controlled Machine Tool Operators, Metal and Plastic	84	2	720	\$40,490.00	\$13,670.00	6%	12

Special Occupations:

Top Industries for Paper Goods Machine Setters, Operators, and Tenders

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Converted paper product manufacturing	322200	60.48%	68,412	57,411	-16.08%
Pulp, paper, and paperboard mills	322100	21.93%	24,800	17,202	-30.64%
Printing and related support activities	323100	8.22%	9,293	7,363	-20.77%
Newspaper publishers	511110	1.36%	1,536	1,316	-14.33%
Plastics product manufacturing	326100	1.27%	1,439	1,525	6.00%
Wholesale electronic markets and agents and brokers	425100	0.67%	762	865	13.48%
Employment services	561300	0.55%	618	783	26.56%
Animal slaughtering and processing	311600	0.46%	521	595	14.13%
Advertising and related services	541800	0.40%	448	505	12.83%
Paper and paper product merchant wholesalers	424100	0.39%	440	470	6.83%
Other general purpose machinery manufacturing	333900	0.19%	219	198	-9.73%
Miscellaneous durable goods merchant wholesalers	423900	0.09%	100	114	14.81%
Warehousing and storage	493100	0.07%	76	101	33.58%
Other electrical equipment and component manufacturing	335900	0.06%	69	64	-7.34%
Fruit and vegetable preserving and specialty food manufacturing	311400	0.05%	61	55	-9.33%

Top Industries for Machine Feeders and Offbearers

Industry	NAICS	% of 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%



TORQ Analysis of Machine Feeders and Offbearers to Sawing Machine Setters, Operators, and Tenders, Wood

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Machine Feeders and Offbearers	53-7063.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Sawing Machine Setters, Operators, and Tenders, Wood	51-7041.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

TORQ RESULTS											
Grand TORQ:								90			
Ability TORQ			Skills TORQ			Knowledge TORQ					
Level		95	Level		85	Level		91			
Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Oral Comprehension	48	6	56	No Skills Upgrade Required!				No Knowledge Upgrades Required!			
Oral Expression	48	6	56								
Arm-Hand Steadiness	48	4	72								
Problem Sensitivity	42	3	53								
Deductive Reasoning	39	2	50								
Inductive Reasoning	39	2	50								
Category Flexibility	41	2	50								
LEVEL and IMPT (IMPORTANCE) refer to the Target Sawing Machine Setters, Operators, and Tenders, Wood. GAP refers to level difference between Machine Feeders and Offbearers and Sawing Machine Setters, Operators, and Tenders, Wood.											

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Machine Feeders and Offbearers	Sawing Machine Setters, Operators, and Tenders, Wood	Importance
Arm-Hand Steadiness	44	48	72
Control Precision	53	50	72
Near Vision	46	46	62
Finger Dexterity	46	42	59
Oral Comprehension	42	48	56
Oral Expression	42	48	56
Manual Dexterity	46	42	56



Problem Sensitivity	39	42	53
Multilimb Coordination	46	46	53
Trunk Strength	44	41	53
Deductive Reasoning	37	39	50
Inductive Reasoning	37	39	50
Category Flexibility	39	41	50
Selective Attention	44	41	50
Rate Control	44	34	50
Speech Clarity	35	35	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Machine Feeders and Offbearers	Sawing Machine Setters, Operators, and Tenders, Wood	Importance
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Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Machine Feeders and Offbearers	Sawing Machine Setters, Operators, and Tenders, Wood	Importance
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Experience & Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Machine Feeders and Offbearers	Sawing Machine Setters, Operators, and Tenders, Wood	Description	Machine Feeders and Offbearers	Sawing Machine Setters, Operators, and Tenders, Wood
10+ years	0%	1%	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%	8%	Post-Bachelor Cert	0%	0%
1-2 years	8%	11%	Bachelors	0%	0%
6-12 months	0%	13%	AA or Equiv	7%	0%
3-6 months	11%	12%	Some College	0%	1%
1-3 months	3%	12%	Post-Secondary Certificate	8%	10%
0-1 month	26%	11%	High School Diploma or GED	61%	40%
None	48%	29%	No HSD or GED	22%	48%

Machine Feeders and Offbearers

Sawing Machine Setters, Operators, and Tenders, Wood

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

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.

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.

These occupations may require a high school diploma or GED certificate. Some may require a formal training course to obtain a license.

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 need anywhere from a few days to a few months of training. Usually, an experienced worker could show you how to do the job.

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



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.
- 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.

Sawing Machine Setters, Operators, and Tenders, Wood

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.
- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- 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.
- Monitor Processes, Materials, or Surroundings - Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.

Specific Tasks

Occupation Specific Tasks:

- Adjust bolts, clamps, stops, guides, and table angles and heights, using hand tools.
- Adjust saw blades, using wrenches and rulers, or by turning handwheels or pressing pedals, levers, or panel buttons.
- Clear machine jams, using hand tools.
- Count, sort, and stack finished workpieces.
- Cut grooves, bevels, and miters, saw curved or irregular designs, and sever or shape metals, according to specifications or work orders.
- Dispose of waste material after completing work assignments.
- Examine blueprints, drawings, work orders, or patterns to determine equipment set-up and selection details, procedures to be used, and dimensions of final products.
- Examine logs or lumber in order to plan the best cuts.
- Guide workpieces against saws, saw over workpieces by hand, or operate automatic feeding devices to guide cuts.
- Inspect and measure workpieces to mark for cuts and to verify the accuracy of cuts, using rulers, squares, or caliper rules.
- Inspect stock for imperfections and to estimate grades or qualities of stock or workpieces.
- Lubricate and clean machines, using wrenches, grease guns, and solvents.



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

wrenches, grade galls, and servers.

- Measure and mark stock for cuts.
- Monitor sawing machines, adjusting speed and tension and clearing jams to ensure proper operation.
- Mount and bolt sawing blades or attachments to machine shafts.
- Operate panelboards of saw and conveyor systems to move stock through processes, and to cut stock to specified dimensions.
- Position and clamp stock on tables, conveyors, or carriages, using hoists, guides, stops, dogs, wedges, and wrenches.
- Pull tables back against stops, and depress pedals to advance cutterheads that shape stock ends.
- Select saw blades, types and grades of stock, and cutting procedures to be used, according to work orders or supervisors' instructions.
- Set up, operate, or tend saws and machines that cut or trim wood to specified dimensions, such as circular saws, band saws, multiple-blade sawing machines, scroll saws, rip saws, and crozer machines.
- Sharpen blades or replace defective or worn blades and bands, using hand tools.
- Trim lumber to straighten rough edges and remove defects, using circular saws.
- Unclamp and remove finished workpieces from tables.
- Unload and roll logs from trucks to sawmill decks or to carriages, or move logs in ponds, using pike poles.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- clean equipment or machinery
- examine products or work to verify conformance to specifications
- fell or buck trees
- grade, classify, or sort products according to specifications
- inspect machinery or equipment to determine adjustments or repairs needed
- 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
- measure, weigh, or count products or materials
- move or fit heavy objects
- operate hoist, winch, or hydraulic boom
- operate woodworking equipment/machinery
- read blueprints
- read specifications



- read technical drawings
- read work order, instructions, formulas, or processing charts
- recognize wood species characteristics
- set up production equipment or machinery
- sort manufacturing materials or products
- understand technical operating, service or repair manuals
- use chain saws
- use fire suppression equipment
- use hand or power tools
- use precision measuring tools or equipment

Labor Market Comparison

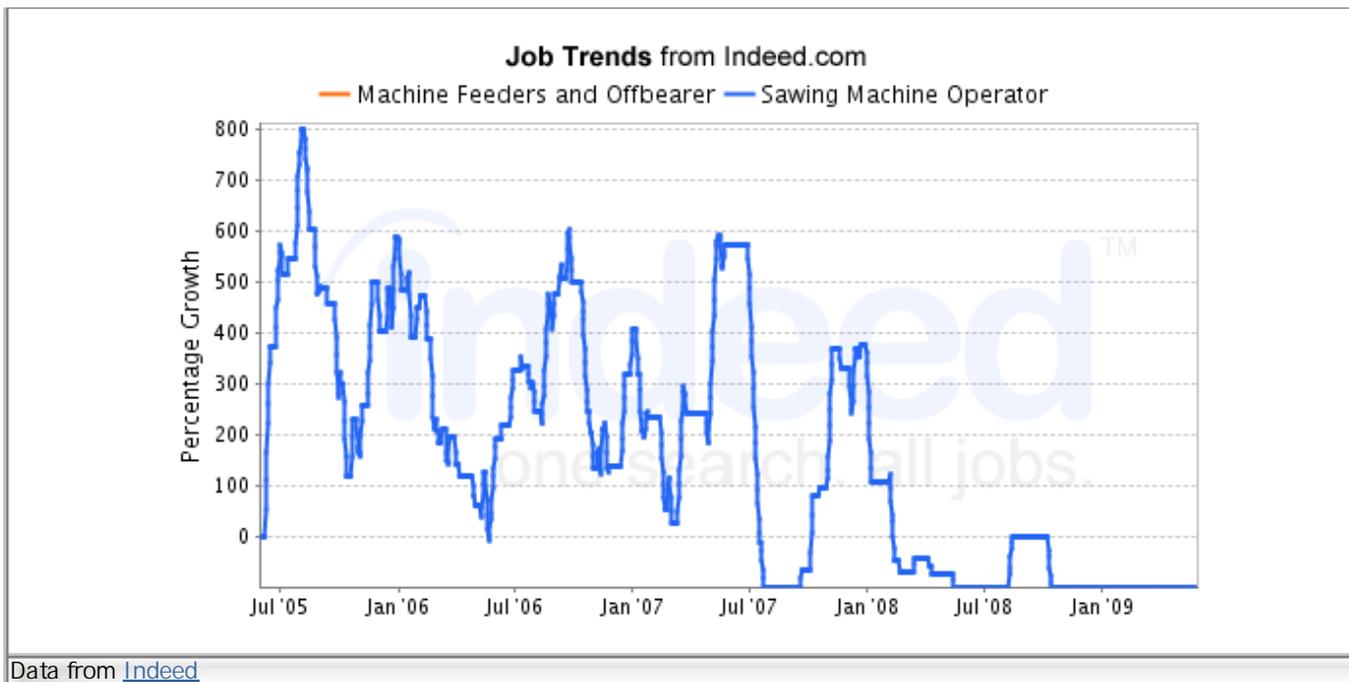
Maine Department of Labor.

Description	Machine Feeders and Offbearers	Sawing Machine Setters, Operators, and Tenders, Wood	Difference
Median Wage	\$ 26,820	\$ 24,790	\$(2,030)
10th Percentile Wage	\$ 19,120	\$ 18,890	\$(230)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 29,840	\$ 29,970	\$ 130
90th Percentile Wage	\$ 35,200	\$ 35,380	\$ 180
Mean Wage	\$ 26,870	\$ 25,920	\$(950)
Total Employment - 2654	480	700	220
Employment Base - 2006	485	765	280
Projected Employment - 2663	378	706	328
Projected Job Growth - 2006-2663	-22.1 %	-7.7 %	14.4 %
Projected Annual Openings - 2006-2663	9	15	6
Special			

Special Occupations:

National Job Posting Trends

Trend for Machine Feeders and Offbearers and Sawing Machine Setters, Operators, and Tenders, Wood



Programs

Related Programs

Cabinet Maker and Millworker

Cabinetmaking and Millwork/Millwright. A program that prepares individuals to apply technical knowledge and skills to set up, operate and repair industrial woodworking machinery, and to use such machinery to design and fabricate wooden components and complete articles.

No information on schools for the program

Maine Statewide Promotion Opportunities for Machine Feeders and Offbearers

O*NET Code	Title	Grand TORO	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings	Special
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	
51-4122.00	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	
51-4121.07	Solderers and Brazers	85	2	1,610	\$38,030.00	\$11,210.00	7%	49	★
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	
51-4011.00	Computer-Controlled Machine Tool Operators, Metal and Plastic	84	2	720	\$40,490.00	\$13,670.00	6%	12	

Special Occupations:

Top Industries for Sawing Machine Setters, Operators, and Tenders, Wood

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Other wood product manufacturing	321900	26.55%	17,269	17,901	3.66%
Sawmills and wood preservation	321100	25.90%	16,845	14,856	-11.81%
Veneer, plywood, and engineered wood product manufacturing	321200	12.25%	7,969	9,546	19.78%
Self-employed workers, primary job	000601	7.11%	4,624	5,419	17.19%



Wood kitchen cabinet and countertop manufacturing	337110	5.97%	3,881	4,726	21.79%
Household and institutional furniture manufacturing	337120	5.22%	3,395	2,842	-16.30%
Office furniture (including fixtures) manufacturing	337200	3.32%	2,159	2,233	3.43%
Lumber and other construction materials merchant wholesalers	423300	2.03%	1,317	1,664	26.35%
Building material and supplies dealers	444100	1.42%	922	1,296	40.57%
Employment services	561300	1.09%	708	985	39.22%
Self-employed workers, secondary job	000602	0.90%	584	640	9.51%
Motor vehicle parts manufacturing	336300	0.25%	163	143	-12.42%
Motor vehicle body and trailer manufacturing	336200	0.24%	157	169	7.63%
Management of companies and enterprises	551100	0.12%	80	102	26.80%

Top Industries for Machine Feeders and Offbearers

Industry	NAICS	% of 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%

Industry & Occupational Data Sources

TORQ Results: The TORQ Scores is based upon an proprietary algorithm applied against Knowledge, Skills and Ability levels and importance derived from O*NET 12.

ASK Analysis, Experience & Education Levels and Tasks: O*Net 12

Labor Market Comparisons Occupational Projections data from Maine Department of Labor

National Posting Trends Indeed.com

Labor Pool & Promotions Opportunities: Occupational Projections data from Maine Department of Labor

Top Industries: Occupational Employment Statistics program (U.S. Bureau of Labor Statistics)