



TORQ Analysis of Textile Knitting and Weaving Machine Setters, Operators, and Tenders to Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	51-6063.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	51-6064.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

TORQ RESULTS											
Grand TORQ:										85	
Ability TORQ			Skills TORQ				Knowledge TORQ				
Level			86	Level			82	Level			87
Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Imp	Skill	Level	Gap	Imp	Knowledge	Level	Gap	Imp
Far Vision	44	16	53	No Skills Upgrade Required!				No Knowledge Upgrades Required!			
Gross Body Coordination	39	14	53								
Depth Perception	41	13	50								
Rate Control	42	10	59								
Reaction Time	53	9	65								
Flexibility of Closure	41	11	53								
Arm-Hand Steadiness	59	8	68								
Visual Color Discrimination	50	9	59								
Hearing Sensitivity	44	9	53								
Near Vision	50	8	56								
Static Strength	41	7	53								
Extent Flexibility	50	6	50								
Problem Sensitivity	46	5	59								
Perceptual Speed	46	5	59								
Selective Attention	42	5	50								
Manual Dexterity	48	4	62								
Multilimb Coordination	44	3	62								
Trunk Strength	44	3	59								
Visualization	44	3	53								



Auditory Attention	44	3	53
Stamina	35	3	50
Finger Dexterity	53	2	59
Category Flexibility	41	2	50

LEVEL and IMPT (IMPORTANCE) refer to the Target Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders. GAP refers to level difference between Textile Knitting and Weaving Machine Setters, Operators, and Tenders and Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders.

ASK ANALYSIS

Ability Level Comparison - Abilities with importance scores over 50

Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	Importance
Arm-Hand Steadiness	51	59	68
Reaction Time	44	53	65
Manual Dexterity	44	48	62
Multilimb Coordination	41	44	62
Problem Sensitivity	41	46	59
Perceptual Speed	41	46	59
Finger Dexterity	51	53	59
Control Precision	51	50	59
Rate Control	32	42	59
Trunk Strength	41	44	59
Visual Color Discrimination	41	50	59
Near Vision	42	50	56
Flexibility of Closure	30	41	53
Visualization	41	44	53
Static Strength	34	41	53
Gross Body Coordination	25	39	53
Far Vision	28	44	53
Hearing Sensitivity	35	44	53
Auditory Attention	41	44	53
Oral Expression	44	39	50
Information Ordering	39	37	50
Category Flexibility	39	41	50
Selective Attention	37	42	50
Stamina	32	35	50
Extent Flexibility	44	50	50
Depth Perception	28	41	50
Speech Clarity	35	35	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	Importance
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Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	Importance
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Experience & Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders
10+ years	0%	0%	Doctoral	1%	0%
8-10 years	0%	0%	Professional Degree	0%	0%
6-8 years	0%	0%	Post-Masters Cert	0%	0%
4-6 years	0%	11%	Master's Degree	0%	0%
2-4 years	1%	0%	Post-Bachelor Cert	0%	0%
1-2 years	2%	5%	Bachelors	0%	0%
6-12 months	26%	2%	AA or Equiv	4%	0%
3-6 months	1%	0%	Some College	0%	0%
1-3 months	7%	19%	Post-Secondary Certificate	0%	1%
0-1 month	47%	10%	High School Diploma or GED	66%	78%
None	14%	50%	No HSD or GED	27%	19%

Textile Knitting and Weaving Machine Setters, Operators, and Tenders

Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders

Most Common Educational/Training Requirement:

Long-term on-the-job training

Moderate-term on-the-job training

Job Zone Comparison

3 - Job Zone Three: Medium Preparation Needed

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Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.

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

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

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Tasks

Textile Knitting and Weaving Machine Setters, Operators, and Tenders

Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders

Core Tasks

Core Tasks

Generalized Work Activities:

Generalized Work Activities:

- 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

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environment, to detect or assess problems.

- Repairing and Maintaining Mechanical Equipment - Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.

Specific Tasks

Occupation Specific Tasks:

- Adjust machine heating mechanisms, tensions, and speeds to produce specified products.
- Clean, oil, and lubricate machines, using air hoses, cleaning solutions, rags, oil cans, and/or grease guns.
- Confer with co-workers to obtain information about orders, processes, or problems.
- Examine looms to determine causes of loom stoppage, such as warp filling, harness breaks, or mechanical defects.
- Inspect machinery to determine whether repairs are needed.
- Inspect products to ensure that specifications are met and to determine if machines need adjustment.
- Install, level, and align machine components such as gears, chains, guides, dies, cutters, and/or needles to set up machinery for operation.
- Notify supervisors or repair staff of mechanical malfunctions.
- Observe woven cloth to detect weaving defects.
- Operate machines for test runs to verify adjustments and to obtain product samples.
- Program electronic equipment.
- Record information about work completed and machine settings.
- Remove defects in cloth by cutting and pulling out filling.
- Repair or replace worn or defective needles and other components, using hand tools.
- Set up, or set up and operate textile machines that perform textile processing and manufacturing operations such as winding, twisting, knitting, weaving, bonding, and/or stretching.
- Start machines, monitor operations, and make adjustments as needed.
- Stop machines when specified amounts of

environment, to detect or assess problems.

- Repairing and Maintaining Mechanical Equipment - Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.

Specific Tasks

Occupation Specific Tasks:

- Adjust machine settings such as speed or tension to produce products that meet specifications.
- Clean, oil, and lubricate machines, using air hoses, cleaning solutions, rags, oil cans, and grease guns.
- Inspect machinery to determine whether repairs are needed.
- Inspect products to verify that they meet specifications and to determine whether machine adjustment is needed.
- Install, level, and align machine components such as gears, chains, guides, dies, cutters, and/or needles to set up machinery for operation.
- Measure bobbins periodically, using gauges; and turn screws to adjust tension if bobbins are not of specified size.
- Notify supervisors or mechanics of equipment malfunctions.
- Observe bobbins as they are winding; and cut threads to remove loaded bobbins, using knives.
- Observe operations to detect defects, malfunctions, or supply shortages.
- Operate machines for test runs to verify adjustments and to obtain product samples.
- Place bobbins on spindles and insert spindles into bobbin-winding machines.
- Record production data such as numbers and types of bobbins wound.
- Remove spindles from machines and bobbins from spindles.
- Repair or replace worn or defective parts or components, using hand tools.
- Replace depleted supply packages with full packages.
- Start machines, monitor operation, and make adjustments as needed.
- Stop machines when specified amount of products has been produced.



product have been produced.

- Study guides, loom patterns, samples, charts, and/or specification sheets, or confer with supervisors or engineering staff to determine setup requirements.
- Thread yarn, thread, and fabric through guides, needles, and rollers of machines for weaving, knitting, or other processing.
- Wash and blend wool, yarn, or cloth.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- clean equipment or machinery
- confer with engineering, technical or manufacturing personnel
- examine products or work to verify conformance 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
- 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 textile production equipment/machinery
- perform safety inspections in manufacturing or industrial setting
- read specifications
- read work order, instructions, formulas, or processing charts
- recognize characteristics of cloth or fabric
- set up production equipment or machinery
- understand technical operating, service or repair manuals
- use hand or power tools
- use precision measuring tools or equipment

- Study guides, samples, charts, and specification sheets, or confer with supervisors or engineering staff to determine setup requirements.
- Tend machines that twist together two or more strands of yarn or insert additional twists into single strands of yarn to increase strength, smoothness, and/or uniformity of yarn.
- Tend machines that wind wire onto bobbins, preparatory to formation of wire netting used in reinforcing sheet glass.
- Tend machines with multiple winding units that wind thread onto shuttle bobbins for use on sewing machines or other kinds of bobbins for sole-stitching, knitting, or weaving machinery.
- Tend spinning frames that draw out and twist roving or sliver into yarn.
- Thread yarn, thread, and/or fabric through guides, needles, and rollers of machines.
- Unwind lengths of yarn, thread, or twine from spools and wind onto bobbins.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- clean equipment or machinery
- confer with engineering, technical or manufacturing personnel
- examine products or work to verify conformance to specifications
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Labor Market Comparison



Maine Department of Labor.

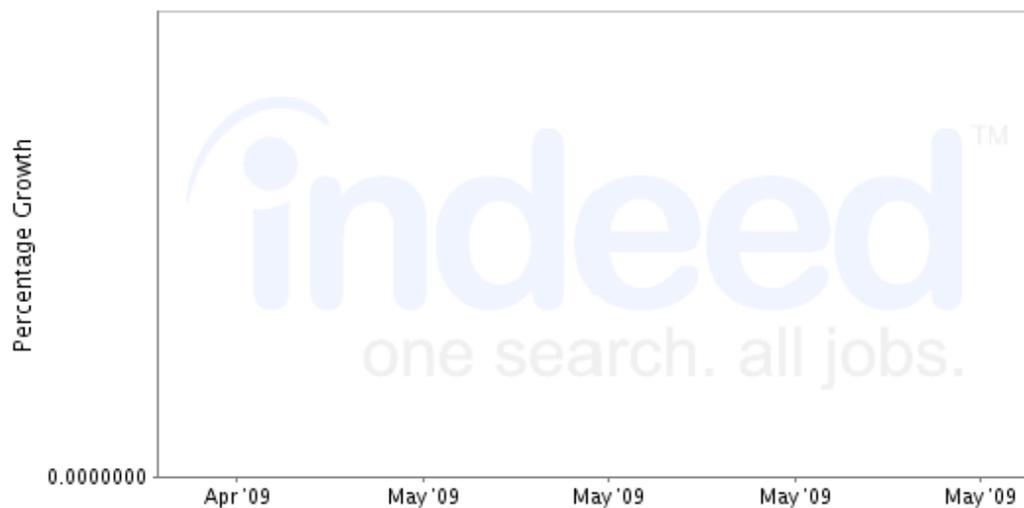
Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	Difference
Median Wage	N/A	\$ 25,840	N/A
10th Percentile Wage	N/A	\$ 17,060	N/A
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	N/A	\$ 29,370	N/A
90th Percentile Wage	N/A	\$ 31,830	N/A
Mean Wage	N/A	\$ 25,210	N/A
Total Employment - 2584	N/A	290	N/A
Employment Base - 2593	N/A	N/A	N/A
Projected Employment - 2593	N/A	N/A	N/A
Projected Job Growth - 2006-2593	N/A	0.0 %	N/A
Projected Annual Openings - 2006-2593	N/A	0	N/A
Special			
Special Occupations:			

National Job Posting Trends

Trend for Textile Knitting and Weaving Machine Setters, Operators, and Tenders and Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders

Job Trends from Indeed.com

— Textile Weaving Machine Operator — Textile Winding Machine Operator

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

Programs



Related Programs

Industrial Machinery Main. and Repairer

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

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

Maine Statewide Promotion Opportunities for Textile Knitting and Weaving Machine Setters, Operators, and Tenders

O* NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings	Special
51-6031.00	Sewing Machine Operators	88	1	1,080	\$22,440.00	\$22,440.00	-8%	10	
51-6064.00	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	85	3	290	\$25,840.00	\$25,840.00	0%	0	
51-9198.00	Helpers--Production Workers	84	1	1,490	\$22,260.00	\$22,260.00	-10%	37	
43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators	83	2	970	\$41,950.00	\$41,950.00	-12%	10	
43-9051.00	Mail Clerks and Mail Machine Operators, Except Postal Service	83	1	490	\$23,250.00	\$23,250.00	-19%	13	
51-6062.00	Textile Cutting Machine Setters, Operators, and Tenders	83	3	110	\$24,860.00	\$24,860.00	-13%	4	
51-2021.00	Coil Winders, Tapers, and Finishers	83	2	90	\$31,910.00	\$31,910.00	-53%	1	
51-6021.00	Pressers, Textile, Garment, and Related Materials	82	1	130	\$20,910.00	\$20,910.00	-12%	1	
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	82	2	910	\$38,230.00	\$38,230.00	-26%	23	



51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	81	2	260	\$28,330.00	\$28,330.00	-7%	5
53-7063.00	Machine Feeders and Offbearers	81	1	480	\$26,820.00	\$26,820.00	-22%	9
45-2041.00	Graders and Sorters, Agricultural Products	80	1	170	\$17,170.00	\$17,170.00	-21%	4
51-2092.00	Team Assemblers	80	2	3,850	\$23,730.00	\$23,730.00	-7%	82
51-3091.00	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	80	2	90	\$27,600.00	\$27,600.00	0%	4
51-3092.00	Food Batchmakers	80	2	640	\$25,410.00	\$25,410.00	-7%	14

Special Occupations:

Top Industries for Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Fiber, yarn, and thread mills	313100	45.53%	19,735	15,068	-23.65%
Fabric mills	313200	19.64%	8,510	5,609	-34.09%
Textile furnishings mills	314100	15.93%	6,906	5,947	-13.89%
Other textile product mills	314900	5.53%	2,395	2,088	-12.83%
Textile and fabric finishing and fabric coating mills	313300	4.29%	1,860	1,107	-40.47%
Apparel knitting mills	315100	0.96%	418	213	-49.01%
Glass and glass product manufacturing	327200	0.92%	397	283	-28.82%
Employment services	561300	0.64%	277	286	3.27%
Management of companies and enterprises	551100	0.40%	174	163	-5.94%

Top Industries for Textile Knitting and Weaving Machine Setters, Operators, and Tenders

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Fabric mills	313200	46.48%	18,660	12,299	-34.09%
Apparel knitting mills	315100	17.66%	7,091	4,180	-41.05%
Textile furnishings mills	314100	12.66%	5,083	4,376	-13.90%
Self-employed workers, primary job	000601	5.84%	2,346	2,089	-10.94%
Fiber, yarn, and thread mills	313100	5.51%	2,211	1,557	-29.60%



Textile and fabric finishing and fabric coating mills	313300	2.80%	1,125	580	-48.45%
Other textile product mills	314900	2.72%	1,090	819	-24.92%
Cut and sew apparel manufacturing	315200	1.24%	497	175	-64.70%
Apparel accessories and other apparel manufacturing	315900	0.88%	355	207	-41.57%
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	325200	0.81%	324	218	-32.90%
Employment services	561300	0.41%	165	174	5.79%
Medical equipment and supplies manufacturing	339100	0.18%	72	61	-14.49%



TORQ Analysis of Textile Knitting and Weaving Machine Setters, Operators, and Tenders to Helpers--Production Workers

ANALYSIS INPUT

Transfer	Title	O*NET	Filters		
From Title:	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	51-6063.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Helpers--Production Workers	51-9198.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

TORQ RESULTS

Grand TORQ:

84

Ability TORQ		Skills TORQ		Knowledge TORQ	
Level	90	Level	80	Level	84

Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Imp	Skill	Level	Gap	Imp	Knowledge	Level	Gap	Imp
Trunk Strength	48	7	59	No Skills Upgrade Required!				No Knowledge Upgrades Required!			
Near Vision	48	6	62								
Multilimb Coordination	44	3	50								
Deductive Reasoning	37	2	50								

LEVEL and IMP (IMPORTANCE) refer to the Target Helpers--Production Workers. GAP refers to level difference between Textile Knitting and Weaving Machine Setters, Operators, and Tenders and Helpers--Production Workers.

ASK ANALYSIS

Ability Level Comparison - Abilities with importance scores over 50

Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Helpers--Production Workers	Importance
Near Vision	42	48	62
Trunk Strength	41	48	59
Arm-Hand Steadiness	51	48	56
Problem Sensitivity	41	39	53
Control Precision	51	50	53
Oral Comprehension	44	44	50
Oral Expression	44	37	50
Deductive Reasoning	35	37	50
Manual Dexterity	44	42	50
Multilimb Coordination	41	44	50

Skill Level Comparison - Abilities with importance scores over 69



Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Helpers--Production Workers	Importance
Knowledge Level Comparison - Knowledge with importance scores over 69			
Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Helpers--Production Workers	Importance

Experience & Education Comparison

Related Work Experience Comparison				Required Education Level Comparison		
Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Helpers--Production Workers		Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Helpers--Production Workers
10+ years	0%	0%		Doctoral	1%	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	1%	0%		Post-Bachelor Cert	0%	0%
1-2 years	2%	13%		Bachelors	0%	0%
6-12 months	26%	39%		AA or Equiv	4%	0%
3-6 months	1%	7%		Some College	0%	0%
1-3 months	7%	1%		Post-Secondary Certificate	0%	11%
0-1 month	47%	10%		High School Diploma or GED	66%	51%
None	14%	27%		No HSD or GED	27%	36%
Textile Knitting and Weaving Machine Setters, Operators, and Tenders				Helpers--Production Workers		
Most Common Educational/Training Requirement:						
Long-term on-the-job training				Short-term on-the-job training		
Job Zone Comparison						
3 - Job Zone Three: Medium Preparation Needed				1 - Job Zone One: Little or No Preparation Needed		
<p>Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.</p> <p>Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree. Some may require a bachelor's degree.</p> <p>Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers.</p>				<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>		

Tasks

Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Helpers--Production Workers
Core Tasks	Core Tasks



Generalized Work Activities:

- 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.
- Repairing and Maintaining Mechanical Equipment - Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.

Specific Tasks

Occupation Specific Tasks:

- Adjust machine heating mechanisms, tensions, and speeds to produce specified products.
- Clean, oil, and lubricate machines, using air hoses, cleaning solutions, rags, oil cans, and/or grease guns.
- Confer with co-workers to obtain information about orders, processes, or problems.
- Examine looms to determine causes of loom stoppage, such as warp filling, harness breaks, or mechanical defects.
- Inspect machinery to determine whether repairs are needed.
- Inspect products to ensure that specifications are met and to determine if machines need adjustment.
- Install, level, and align machine components such as gears, chains, guides, dies, cutters, and/or needles to set up machinery for operation.
- Notify supervisors or repair staff of mechanical malfunctions.
- Observe woven cloth to detect weaving defects.
- Operate machines for test runs to verify adjustments and to obtain product samples.
- Program electronic equipment.
- Record information about work completed and machine settings.
- Remove defects in cloth by cutting and pulling out filling.
- Repair or replace worn or defective needles and other components, using hand tools.

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.
- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- 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:

- Attach slings, ropes, and cables to objects such as pipes, hoses, and bundles.
- Break up defective products for reprocessing.
- Change machine gears, using wrenches.
- Clean and lubricate equipment.
- Count finished products to determine if product orders are complete.
- Cut or break flashing from materials or products.
- Dump materials such as prepared ingredients into machine hoppers prior to mixing.
- Examine products to verify conformance to quality standards.
- Fold products and product parts during processing.
- Help production workers by performing duties of lesser skill, such as supplying or holding materials or tools, and cleaning work areas and equipment.
- Lift raw materials, finished products, and packed items, manually or using hoists.
- Load and unload items from machines, conveyors, and conveyances.
- Mark or tag identification on parts.
- Measure amounts of products, lengths of extruded articles, or weights of filled containers to ensure conformance to specifications.
- Mix ingredients according to specified procedures and formulas.
- Observe equipment operations so that malfunctions can be detected, and notify operators of any malfunctions.
- Operate machinery used in the production process, or assist machine operators.



- Set up, or set up and operate textile machines that perform textile processing and manufacturing operations such as winding, twisting, knitting, weaving, bonding, and/or stretching.
- Start machines, monitor operations, and make adjustments as needed.
- Stop machines when specified amounts of product have been produced.
- Study guides, loom patterns, samples, charts, and/or specification sheets, or confer with supervisors or engineering staff to determine setup requirements.
- Thread yarn, thread, and fabric through guides, needles, and rollers of machines for weaving, knitting, or other processing.
- Wash and blend wool, yarn, or cloth.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- clean equipment or machinery
- confer with engineering, technical or manufacturing personnel
- examine products or work to verify conformance 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
- 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 textile production equipment/machinery
- perform safety inspections in manufacturing or industrial setting
- read specifications
- read work order, instructions, formulas, or processing charts
- recognize characteristics of cloth or fabric
- set up production equipment or machinery
- understand technical operating, service or repair manuals
- use hand or power tools
- use precision measuring tools or equipment

- Pack and store materials and products.
- Pack food products in paper bags and boxes, and stack them in warehouses and coolers.
- Perform minor repairs to machines, such as replacing damaged or worn parts.
- Place products in equipment or on work surfaces for further processing, inspecting, or wrapping.
- Position spouts or chutes of storage bins so that containers can be filled.
- Prepare raw materials for processing.
- Read gauges and charts, and record data obtained.
- Record information such as the number of products tested, meter readings, and dates and times of product production.
- Remove products, machine attachments, and waste material from machines.
- Separate products according to weight, grade, size, and composition of materials used to produce them.
- Signal coworkers to direct them to move products during the production process.
- Start machines or equipment in order to begin production processes.
- Thread ends of items such as thread, cloth, and lace through needles and rollers, and around take-up tubes.
- Tie products in bundles for further processing or shipment, following prescribed procedures.
- Transfer finished products, raw materials, tools, or equipment between storage and work areas of plants and warehouses, by hand or using hand trucks or powered lift trucks.
- Turn valves to regulate flow of liquids or air, to reverse machines, to start pumps, or to regulate equipment.
- Undclamp and hoist full reels from braiding, winding, and other fabricating machines, using power hoists.
- Wash work areas, machines, equipment, vehicles, and products.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- 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
- lubricate machinery, equipment, or parts
- 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
- move or fit heavy objects
- operate food processing production equipment/machinery
- operate hoist, winch, or hydraulic boom
- operate metal or plastic fabricating equipment/machinery
- operate ore refining/foundry equipment/machinery
- operate packaging or banding machine or equipment
- operate pulp or paper making equipment
- operate textile production equipment/machinery
- operate woodworking equipment/machinery
- package goods for shipment or storage
- perform repetitive tasks in assembly setting
- perform safety inspections in manufacturing or industrial setting
- read work order, instructions, formulas, or processing charts
- signal directions or warnings to coworkers
- sort manufacturing materials or products
- wrap products

Tools - Examples

- Adjustable wrenches
- Hand files
- Industrial platform scales
- Forklifts
- Grease guns
- Claw hammers
- Handtrucks
- Power hoists
- Hydraulic booms
- Hand jacks
- Label-making machines
- Platform ladders
- Locking pliers



- Personal computers
- Planing tools
- Jackhammers
- Power drills
- Power grinders
- Power nail guns
- Power sanders
- Power saws
- Pressure wands
- Hand saws
- Phillips head screwdrivers
- Skid steer loaders
- Material-hoisting slings
- Power staple guns
- Measuring tapes
- Utility knives
- Industrial vacuum cleaners
- Hydraulic winches

Labor Market Comparison

Maine Department of Labor.

Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Helpers--Production Workers	Difference
Median Wage	N/A	\$ 22,260	N/A
10th Percentile Wage	N/A	\$ 17,160	N/A
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	N/A	\$ 25,210	N/A
90th Percentile Wage	N/A	\$ 30,870	N/A
Mean Wage	N/A	\$ 23,130	N/A
Total Employment - 2625	N/A	1,490	N/A
Employment Base - 2634	N/A	1,522	N/A
Projected Employment - 2634	N/A	1,365	N/A
Projected Job Growth - 2006-2634	N/A	-10.3 %	N/A
Projected Annual Openings - 2006-2634	N/A	37	N/A

Special			
Special Occupations:			

National Job Posting Trends

Trend for Textile Knitting and Weaving Machine Setters, Operators, and Tenders and Helpers--Production Workers



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

Programs

No information on programs or the occupation.

Maine Statewide Promotion Opportunities for Textile Knitting and Weaving Machine Setters, Operators, and Tenders and Helpers--Production Workers

O*NET Code	Title	Grand TORO	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings	Special
51-6031.00	Sewing Machine Operators	88	1	1,080	\$22,440.00	\$22,440.00	-8%	10	
51-6064.00	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	85	3	290	\$25,840.00	\$25,840.00	0%	0	
51-9198.00	Helpers--Production Workers	84	1	1,490	\$22,260.00	\$22,260.00	-10%	37	
43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators	83	2	970	\$41,950.00	\$41,950.00	-12%	10	



43-9051.00	Mail Clerks and Mail Machine Operators, Except Postal Service	83	1	490	\$23,250.00	\$23,250.00	-19%	13
51-2021.00	Coil Winders, Tapers, and Finishers	83	2	90	\$31,910.00	\$31,910.00	-53%	1
51-6062.00	Textile Cutting Machine Setters, Operators, and Tenders	83	3	110	\$24,860.00	\$24,860.00	-13%	4
51-6021.00	Pressers, Textile, Garment, and Related Materials	82	1	130	\$20,910.00	\$20,910.00	-12%	1
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	82	2	910	\$38,230.00	\$38,230.00	-26%	23
53-7063.00	Machine Feeders and Offbearers	81	1	480	\$26,820.00	\$26,820.00	-22%	9
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	81	2	260	\$28,330.00	\$28,330.00	-7%	5
51-2092.00	Team Assemblers	80	2	3,850	\$23,730.00	\$23,730.00	-7%	82
51-3091.00	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	80	2	90	\$27,600.00	\$27,600.00	0%	4
51-3092.00	Food Batchmakers	80	2	640	\$25,410.00	\$25,410.00	-7%	14
45-2041.00	Graders and Sorters, Agricultural Products	80	1	170	\$17,170.00	\$17,170.00	-21%	4

Special Occupations:

Top Industries for Helpers--Production Workers

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Employment services	561300	22.19%	120,164	142,842	18.87%
Animal slaughtering and processing	311600	5.61%	30,385	36,112	18.85%
Printing and related support activities	323100	4.49%	24,300	19,253	-20.77%
Converted paper product manufacturing	322200	3.76%	20,372	17,096	-16.08%
Plastics product manufacturing	326100	3.35%	18,157	19,247	6.00%
Bakeries and tortilla manufacturing	311800	2.61%	14,121	14,424	2.15%



Architectural and structural metals manufacturing	332300	2.49%	13,499	14,418	6.80%
Other wood product manufacturing	321900	2.45%	13,261	12,496	-5.77%
Fruit and vegetable preserving and specialty food manufacturing	311400	1.83%	9,936	9,009	-9.33%
Motor vehicle parts manufacturing	336300	1.77%	9,606	7,648	-20.39%
Coating, engraving, heat treating, and allied activities	332800	1.68%	9,101	7,459	-18.03%
Household and institutional furniture manufacturing	337120	1.32%	7,166	5,452	-23.91%
Machine shops	332710	1.30%	7,021	5,808	-17.28%
Cement and concrete product manufacturing	327300	1.17%	6,321	6,861	8.55%
Other fabricated metal product manufacturing	332900	1.15%	6,215	5,507	-11.39%

Top Industries for Textile Knitting and Weaving Machine Setters, Operators, and Tenders

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Fabric mills	313200	46.48%	18,660	12,299	-34.09%
Apparel knitting mills	315100	17.66%	7,091	4,180	-41.05%
Textile furnishings mills	314100	12.66%	5,083	4,376	-13.90%
Self-employed workers, primary job	000601	5.84%	2,346	2,089	-10.94%
Fiber, yarn, and thread mills	313100	5.51%	2,211	1,557	-29.60%
Textile and fabric finishing and fabric coating mills	313300	2.80%	1,125	580	-48.45%
Other textile product mills	314900	2.72%	1,090	819	-24.92%
Cut and sew apparel manufacturing	315200	1.24%	497	175	-64.70%
Apparel accessories and other apparel manufacturing	315900	0.88%	355	207	-41.57%
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	325200	0.81%	324	218	-32.90%
Employment services	561300	0.41%	165	174	5.79%
Medical equipment and supplies manufacturing	339100	0.18%	72	61	-14.49%



TORQ Analysis of Textile Knitting and Weaving Machine Setters, Operators, and Tenders to Mail Clerks and Mail Machine Operators, Except Postal Service

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	51-6063.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Mail Clerks and Mail Machine Operators, Except Postal Service	43-9051.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

TORQ RESULTS							
Grand TORQ:					83		
Ability TORQ		Skills TORQ		Knowledge TORQ			
Level		Level		Level			
Gaps To Narrow if Possible				Upgrade These Skills		Knowledge to Add	
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt
Category Flexibility	41	2	53	No Skills Upgrade Required!			
Selective Attention	39	2	53	No Knowledge Upgrades Required!			
Speech Recognition	37	2	50				
<p>LEVEL and IMPT (IMPORTANCE) refer to the Target Mail Clerks and Mail Machine Operators, Except Postal Service. GAP refers to level difference between Textile Knitting and Weaving Machine Setters, Operators, and Tenders and Mail Clerks and Mail Machine Operators, Except Postal Service.</p>							

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Mail Clerks and Mail Machine Operators, Except Postal Service	Importance
Near Vision	42	41	59
Category Flexibility	39	41	53
Selective Attention	37	39	53
Oral Comprehension	44	44	50
Problem Sensitivity	41	37	50
Information Ordering	39	37	50
Finger Dexterity	51	41	50
Speech Recognition	35	37	50
Skill Level Comparison - Abilities with importance scores over 69			



Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Mail Clerks and Mail Machine Operators, Except Postal Service	Importance
Knowledge Level Comparison - Knowledge with importance scores over 69			
Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Mail Clerks and Mail Machine Operators, Except Postal Service	Importance

Experience & Education Comparison					
Related Work Experience Comparison			Required Education Level Comparison		
Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Mail Clerks and Mail Machine Operators, Except Postal Service	Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Mail Clerks and Mail Machine Operators, Except Postal Service
10+ years	0%	0%	Doctoral	1%	0%
8-10 years	0%	0%	Professional Degree	0%	0%
6-8 years	0%	0%	Post-Masters Cert	0%	0%
4-6 years	0%	3%	Master's Degree	0%	0%
2-4 years	1%	1%	Post-Bachelor Cert	0%	0%
1-2 years	2%	3%	Bachelors	0%	0%
6-12 months	26%	10%	AA or Equiv	4%	0%
3-6 months	1%	4%	Some College	0%	6%
1-3 months	7%	7%	Post-Secondary Certificate	0%	1%
0-1 month	47%	5%	High School Diploma or GED	66%	37%
None	14%	63%	No HSD or GED	27%	54%
Textile Knitting and Weaving Machine Setters, Operators, and Tenders			Mail Clerks and Mail Machine Operators, Except Postal Service		
Most Common Educational/Training Requirement:					
Long-term on-the-job training			Short-term on-the-job training		
Job Zone Comparison					
3 - Job Zone Three: Medium Preparation Needed			1 - Job Zone One: Little or No Preparation Needed		
Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.			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.		
Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree. Some may require a bachelor's degree.			These occupations may require a high school diploma or GED certificate. Some may require a formal training course to obtain a license.		
Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers.			Employees in these occupations need anywhere from a few days to a few months of training. Usually, an experienced worker could show you how to do the job.		

Tasks	
Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Mail Clerks and Mail Machine Operators, Except Postal Service
Core Tasks	Core Tasks
Generalized Work Activities:	Generalized Work Activities:
<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things. Controlling Machines and Processes - Using



Surroundings - Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.

- Repairing and Maintaining Mechanical Equipment - Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.

Specific Tasks

Occupation Specific Tasks:

- Adjust machine heating mechanisms, tensions, and speeds to produce specified products.
- Clean, oil, and lubricate machines, using air hoses, cleaning solutions, rags, oil cans, and/or grease guns.
- Confer with co-workers to obtain information about orders, processes, or problems.
- Examine looms to determine causes of loom stoppage, such as warp filling, harness breaks, or mechanical defects.
- Inspect machinery to determine whether repairs are needed.
- Inspect products to ensure that specifications are met and to determine if machines need adjustment.
- Install, level, and align machine components such as gears, chains, guides, dies, cutters, and/or needles to set up machinery for operation.
- Notify supervisors or repair staff of mechanical malfunctions.
- Observe woven cloth to detect weaving defects.
- Operate machines for test runs to verify adjustments and to obtain product samples.
- Program electronic equipment.
- Record information about work completed and machine settings.
- Remove defects in cloth by cutting and pulling out filling.
- Repair or replace worn or defective needles and other components, using hand tools.
- Set up, or set up and operate textile machines that perform textile processing and manufacturing operations such as winding, twisting, knitting, weaving, bonding, and/or stretching.
- Start machines, monitor operations, and make adjustments as needed.

either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).

- Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Evaluating Information to Determine Compliance with Standards - Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.

Specific Tasks

Occupation Specific Tasks:

- Accept and check containers of mail or parcels from large volume mailers, couriers, and contractors.
- Add ink, fill paste reservoirs, and change machine ribbons when necessary.
- Adjust guides, rollers, loose card inserters, weighing machines, and tying arms, using rules and hand tools.
- Affix postage to packages or letters by hand, or stamp materials, using postage meters.
- Answer inquiries regarding shipping or mailing policies.
- Clear jams in sortation equipment.
- Contact delivery or courier services to arrange delivery of letters and parcels.
- Determine manner in which mail is to be sent, and prepare it for delivery to mailing facilities.
- Fold letters or circulars and insert them in envelopes.
- Insert material for printing or addressing into loading racks on machines, select type or die sizes, and position plates, stencils, or tapes in machine magazines.
- Inspect mail machine output for defects; determine how to eliminate causes of any defects.
- Lift and unload containers of mail or parcels onto equipment for transportation to sortation stations.
- Mail merchandise samples or promotional literature in response to requests.
- Operate computer-controlled keyboards or voice recognition equipment in order to direct items according to established routing schemes.
- Operate embossing machines or typewriters to make corrections, additions, and changes to address plates.
- Place incoming or outgoing letters or packages into sacks or bins based on destination or type, and place identifying tags on sacks or bins.



make adjustments as needed.

- Stop machines when specified amounts of product have been produced.
- Study guides, loom patterns, samples, charts, and/or specification sheets, or confer with supervisors or engineering staff to determine setup requirements.
- Thread yarn, thread, and fabric through guides, needles, and rollers of machines for weaving, knitting, or other processing.
- Wash and blend wool, yarn, or cloth.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- clean equipment or machinery
- confer with engineering, technical or manufacturing personnel
- examine products or work to verify conformance 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
- 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 textile production equipment/machinery
- perform safety inspections in manufacturing or industrial setting
- read specifications
- read work order, instructions, formulas, or processing charts
- recognize characteristics of cloth or fabric
- set up production equipment or machinery
- understand technical operating, service or repair manuals
- use hand or power tools
- use precision measuring tools or equipment

- Read production orders to determine types and sizes of items scheduled for printing and mailing.
- Release packages or letters to customers upon presentation of written notices or other identification.
- Remove containers of sorted mail/parcels, and transfer them to designated areas according to established procedures.
- Remove from machines printed materials such as labeled articles, postmarked envelopes or tape, and folded sheets.
- Seal or open envelopes, by hand or by using machines.
- Sell mail products, and accept payment for products and mailing charges.
- Sort and route incoming mail, and collect outgoing mail, using carts as necessary.
- Stamp dates and times of receipt of incoming mail.
- Start machines that automatically feed plates, stencils, or tapes through mechanisms, and observe machine operations in order to detect any malfunctions.
- Use equipment such as forklifts and automated "trains" to move containers of mail.
- Verify that items are addressed correctly, marked with the proper postage, and in suitable condition for processing.
- Weigh packages or letters to determine postage needed, using weighing scales and rate charts.
- Wrap packages or bundles by hand, or by using tying machines.

Detailed Tasks

Detailed Work Activities:

- answer customer or public inquiries
- demonstrate or explain assembly or use of equipment
- distribute correspondence or mail
- fill out business or government forms
- insert mail into slots of mail rack
- inspect mail preparation or handling machine output for defects
- inspect outgoing mail for conformance to standards or accuracy
- maintain inventory of office forms
- maintain records, reports, or files
- measure, weigh, or count products or materials
- monitor operation of document sorting machine
- monitor operation of mail preparation or handling machines
- operate alpha or numeric mail sorting systems
- operate business machines



- operate printing equipment/machinery
- package goods for shipment or storage
- process mail through postage machine
- process orders for merchandise
- proofread printed or written material
- provide customer service
- provide customer service in postal or mail service setting
- read work order, instructions, formulas, or processing charts
- set up production equipment or machinery
- sort mail letters or packages
- use computers to enter, access or retrieve data
- use oral or written communication techniques

Labor Market Comparison

Maine Department of Labor.

Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Mail Clerks and Mail Machine Operators, Except Postal Service	Difference
Median Wage	N/A	\$ 23,250	N/A
10th Percentile Wage	N/A	\$ 15,120	N/A
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	N/A	\$ 28,470	N/A
90th Percentile Wage	N/A	\$ 33,170	N/A
Mean Wage	N/A	\$ 23,730	N/A
Total Employment - 2435	N/A	490	N/A
Employment Base - 2444	N/A	485	N/A
Projected Employment - 2444	N/A	395	N/A
Projected Job Growth - 2006-2444	N/A	-18.5 %	N/A
Projected Annual Openings - 2006-2444	N/A	13	N/A
Special			

Special Occupations:

National Job Posting Trends

Trend for Textile Knitting and Weaving Machine Setters, Operators, and Tenders and Mail Clerks and Mail Machine Operators, Except Postal Service



Programs

Related Programs

General Office/Clerical and Typing Services

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

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

Maine Statewide Promotion Opportunities for Textile Knitting and Weaving Machine Setters, Operators, and Tenders

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51-3092.00	Food Batchmakers	80	2	640	\$25,410.00	\$25,410.00	-7%	14

Special Occupations:

Top Industries for Mail Clerks and Mail Machine Operators, Except Postal Service

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Advertising and related services	541800	13.09%	19,902	20,577	3.39%
Employment services	561300	6.47%	9,834	9,148	-6.98%
Newspaper publishers	511110	5.47%	8,311	5,233	-37.03%
Federal government, excluding postal service	919999	4.85%	7,382	5,130	-30.52%



Management of companies and enterprises	551100	3.77%	5,728	4,853	-15.27%
Religious organizations	813100	3.71%	5,649	4,983	-11.79%
Data processing, hosting, and related services	518200	3.58%	5,446	5,411	-0.64%
Colleges, universities, and professional schools, public and private	611300	3.16%	4,809	3,954	-17.77%
Printing and related support activities	323100	2.83%	4,298	2,503	-41.76%
Couriers	492100	2.30%	3,494	2,760	-21.02%
Direct insurance (except life, health, and medical) carriers	524120	2.24%	3,403	2,615	-23.18%
Depository credit intermediation	522100	2.16%	3,284	2,461	-25.06%
Electronic shopping and mail-order houses	454100	1.84%	2,798	2,572	-8.06%
Legal services	541100	1.82%	2,760	2,228	-19.27%
Insurance agencies and brokerages	524210	1.42%	2,165	1,800	-16.86%

Top Industries for Textile Knitting and Weaving Machine Setters, Operators, and Tenders

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Fabric mills	313200	46.48%	18,660	12,299	-34.09%
Apparel knitting mills	315100	17.66%	7,091	4,180	-41.05%
Textile furnishings mills	314100	12.66%	5,083	4,376	-13.90%
Self-employed workers, primary job	000601	5.84%	2,346	2,089	-10.94%
Fiber, yarn, and thread mills	313100	5.51%	2,211	1,557	-29.60%
Textile and fabric finishing and fabric coating mills	313300	2.80%	1,125	580	-48.45%
Other textile product mills	314900	2.72%	1,090	819	-24.92%
Cut and sew apparel manufacturing	315200	1.24%	497	175	-64.70%
Apparel accessories and other apparel manufacturing	315900	0.88%	355	207	-41.57%
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	325200	0.81%	324	218	-32.90%
Employment services	561300	0.41%	165	174	5.79%
Medical equipment and supplies manufacturing	339100	0.18%	72	61	-14.49%



TORQ Analysis of Textile Knitting and Weaving Machine Setters, Operators, and Tenders to Postal Service Mail Sorters, Processors, and Processing Machine Operators

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	51-6063.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Postal Service Mail Sorters, Processors, and Processing Machine Operators	43-5053.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

TORQ RESULTS											
Grand TORQ:										83	
Ability TORQ			Skills TORQ				Knowledge TORQ				
Level			86	Level			84	Level			80
Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Static Strength	46	12	50	No Skills Upgrade Required!				No Knowledge Upgrades Required!			
Near Vision	51	9	62								
Written Comprehension	41	6	56								
Speech Clarity	37	2	56								
Oral Expression	46	2	53								
Oral Comprehension	46	2	50								
Speech Recognition	37	2	50								
<p>LEVEL and IMPT (IMPORTANCE) refer to the Target Postal Service Mail Sorters, Processors, and Processing Machine Operators. GAP refers to level difference between Textile Knitting and Weaving Machine Setters, Operators, and Tenders and Postal Service Mail Sorters, Processors, and Processing Machine Operators.</p>											

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Postal Service Mail Sorters, Processors, and Processing Machine Operators	Importance
Near Vision	42	51	62
Written Comprehension	35	41	56
Category Flexibility	39	39	56
Manual Dexterity	44	44	56
Speech Clarity	35	37	56
Oral Expression	44	46	53
Information Ordering	39	34	53



Finger Dexterity	51	37	53
Oral Comprehension	44	46	50
Problem Sensitivity	41	34	50
Perceptual Speed	41	34	50
Selective Attention	37	37	50
Static Strength	34	46	50
Speech Recognition	35	37	50
Skill Level Comparison - Abilities with importance scores over 69			
Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Postal Service Mail Sorters, Processors, and Processing Machine Operators	Importance
Knowledge Level Comparison - Knowledge with importance scores over 69			
Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Postal Service Mail Sorters, Processors, and Processing Machine Operators	Importance

Experience & Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Postal Service Mail Sorters, Processors, and Processing Machine Operators	Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Postal Service Mail Sorters, Processors, and Processing Machine Operators
10+ years	0%	0%	Doctoral	1%	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	1%	0%	Post-Bachelor Cert	0%	0%
1-2 years	2%	0%	Bachelors	0%	0%
6-12 months	26%	3%	AA or Equiv	4%	0%
3-6 months	1%	18%	Some College	0%	0%
1-3 months	7%	23%	Post-Secondary Certificate	0%	4%
0-1 month	47%	0%	High School Diploma or GED	66%	39%
None	14%	55%	No HSD or GED	27%	54%
Textile Knitting and Weaving Machine Setters, Operators, and Tenders			Postal Service Mail Sorters, Processors, and Processing Machine Operators		
Most Common Educational/Training Requirement:					
Long-term on-the-job training			Short-term on-the-job training		
Job Zone Comparison					
3 - Job Zone Three: Medium Preparation Needed			2 - Job Zone Two: Some Preparation Needed		
Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.			Some previous work-related skill, knowledge, or experience may be helpful in these occupations, but usually is not needed. For example, a teller might benefit from experience working directly with the public, but an inexperienced person could still learn to be a teller with little difficulty.		
Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree. Some may require a bachelor's degree.			These occupations usually require a high school diploma and may require some vocational training or job-related course work. In some cases, an associate's or bachelor's degree could be needed.		
Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers.			Employees in these occupations need anywhere from a few months to one year of working with experienced employees.		



Tasks

Textile Knitting and Weaving Machine Setters, Operators, and Tenders

Core Tasks

Generalized Work Activities:

- 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.
- Repairing and Maintaining Mechanical Equipment - Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.

Specific Tasks

Occupation Specific Tasks:

- Adjust machine heating mechanisms, tensions, and speeds to produce specified products.
- Clean, oil, and lubricate machines, using air hoses, cleaning solutions, rags, oil cans, and/or grease guns.
- Confer with co-workers to obtain information about orders, processes, or problems.
- Examine looms to determine causes of loom stoppage, such as warp filling, harness breaks, or mechanical defects.
- Inspect machinery to determine whether repairs are needed.
- Inspect products to ensure that specifications are met and to determine if machines need adjustment.
- Install, level, and align machine components such as gears, chains, guides, dies, cutters, and/or needles to set up machinery for operation.
- Notify supervisors or repair staff of mechanical malfunctions.
- Observe woven cloth to detect weaving defects.
- Operate machines for test runs to verify adjustments and to obtain product samples.

Postal Service Mail Sorters, Processors, and Processing Machine Operators

Core Tasks

Generalized Work Activities:

- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- 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.
- Updating and Using Relevant Knowledge - Keeping up-to-date technically and applying new knowledge to your job.
- Establishing and Maintaining Interpersonal Relationships - Developing constructive and cooperative working relationships with others, and maintaining them over time.

Specific Tasks

Occupation Specific Tasks:

- Accept and check containers of mail from large volume mailers, couriers, and contractors.
- Bundle, label, and route sorted mail to designated areas depending on destinations and according to established procedures and deadlines.
- Cancel letter or parcel post stamps by hand.
- Check items to ensure that addresses are legible and correct, that sufficient postage has been paid or the appropriate documentation is attached, and that items are in a suitable condition for processing.
- Clear jams in sorting equipment.
- Direct items according to established routing schemes, using computer controlled keyboards or voice recognition equipment.
- Distribute incoming mail into the correct boxes or pigeonholes.
- Dump sacks of mail onto conveyors for culling and sorting.
- Load and unload mail trucks, sometimes lifting containers of mail onto equipment that transports items to sorting stations.
- Move containers of mail, using equipment such as forklifts and automated "trains."
- Open and label mail containers.
- Operate various types of equipment, such as computer scanning equipment, addressographs, mimeographs, optical character readers, and bar-code sorters.



- Program electronic equipment.
- Record information about work completed and machine settings.
- Remove defects in cloth by cutting and pulling out filling.
- Repair or replace worn or defective needles and other components, using hand tools.
- Set up, or set up and operate textile machines that perform textile processing and manufacturing operations such as winding, twisting, knitting, weaving, bonding, and/or stretching.
- Start machines, monitor operations, and make adjustments as needed.
- Stop machines when specified amounts of product have been produced.
- Study guides, loom patterns, samples, charts, and/or specification sheets, or confer with supervisors or engineering staff to determine setup requirements.
- Thread yarn, thread, and fabric through guides, needles, and rollers of machines for weaving, knitting, or other processing.
- Wash and blend wool, yarn, or cloth.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- clean equipment or machinery
- confer with engineering, technical or manufacturing personnel
- examine products or work to verify conformance 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
- 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 textile production equipment/machinery
- perform safety inspections in manufacturing or industrial setting
- read specifications
- read work order, instructions, formulas, or processing charts
- recognize characteristics of cloth or fabric
- set up production equipment or machinery
- understand technical operating, service or repair manuals
- use hand or power tools
- use precision measuring tools or equipment

- Rewrap soiled or broken parcels.
- Search directories to find correct addresses for redirected mail.
- Serve the public at counters or windows, such as by selling stamps and weighing parcels.
- Sort odd-sized mail by hand, sort mail that other workers have been unable to sort, and segregate items requiring special handling.
- Supervise other mail sorters.
- Train new workers.
- Weigh articles to determine required postage.

Detailed Tasks

Detailed Work Activities:

- calculate monetary exchange
- conduct training for personnel
- direct and coordinate activities of workers or staff
- distribute correspondence or mail
- insert mail into slots of mail rack
- inspect machinery or equipment to determine adjustments or repairs needed
- inspect mail preparation or handling machine output for defects
- inspect outgoing mail for conformance to standards or accuracy
- load, unload, or stack containers, materials, or products
- maintain records, reports, or files
- make minor repairs to mechanical equipment
- measure, weigh, or count products or materials
- monitor operation of mail preparation or handling machines
- operate alpha or numeric mail sorting systems
- operate scanner
- process mail through postage machine
- provide customer service
- sell products or services
- sort mail letters or packages
- use computers to enter, access or retrieve data
- use oral or written communication techniques



Labor Market Comparison

Maine Department of Labor.

Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Postal Service Mail Sorters, Processors, and Processing Machine Operators	Difference
Median Wage	N/A	\$ 41,950	N/A
10th Percentile Wage	N/A	\$ 20,940	N/A
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	N/A	\$ 46,460	N/A
90th Percentile Wage	N/A	\$ 49,170	N/A
Mean Wage	N/A	\$ 37,630	N/A
Total Employment - 2421	N/A	970	N/A
Employment Base - 2430	N/A	961	N/A
Projected Employment - 2430	N/A	845	N/A
Projected Job Growth - 2006-2430	N/A	-12.1 %	N/A
Projected Annual Openings - 2006-2430	N/A	10	N/A
Special			

Special Occupations:

National Job Posting Trends

Trend for Textile Knitting and Weaving Machine Setters, Operators, and Tenders and Postal Service Mail Sorters, Processors, and Processing Machine Operators



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



Programs

Related Programs

General Office/Clerical and Typing Services

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

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

Maine Statewide Promotion Opportunities for Textile Knitting and Weaving Machine Setters, Operators, and Tenders

O* NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings	Special
51-6031.00	Sewing Machine Operators	88	1	1,080	\$22,440.00	\$22,440.00	-8%	10	
51-6064.00	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	85	3	290	\$25,840.00	\$25,840.00	0%	0	
51-9198.00	Helpers--Production Workers	84	1	1,490	\$22,260.00	\$22,260.00	-10%	37	
43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators	83	2	970	\$41,950.00	\$41,950.00	-12%	10	
43-9051.00	Mail Clerks and Mail Machine Operators, Except Postal Service	83	1	490	\$23,250.00	\$23,250.00	-19%	13	
51-2021.00	Coil Winders, Tapers, and Finishers	83	2	90	\$31,910.00	\$31,910.00	-53%	1	
51-6062.00	Textile Cutting Machine Setters, Operators, and Tenders	83	3	110	\$24,860.00	\$24,860.00	-13%	4	
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	82	2	910	\$38,230.00	\$38,230.00	-26%	23	
51-6021.00	Pressers, Textile, Garment, and Related Materials	82	1	130	\$20,910.00	\$20,910.00	-12%	1	



51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	81	2	260	\$28,330.00	\$28,330.00	-7%	5
53-7063.00	Machine Feeders and Offbearers	81	1	480	\$26,820.00	\$26,820.00	-22%	9
45-2041.00	Graders and Sorters, Agricultural Products	80	1	170	\$17,170.00	\$17,170.00	-21%	4
51-2092.00	Team Assemblers	80	2	3,850	\$23,730.00	\$23,730.00	-7%	82
51-3091.00	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	80	2	90	\$27,600.00	\$27,600.00	0%	4
51-3092.00	Food Batchmakers	80	2	640	\$25,410.00	\$25,410.00	-7%	14

Special Occupations:

Top Industries for Postal Service Mail Sorters, Processors, and Processing Machine Operators

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Postal service	491100	99.96%	197,637	181,070	-8.38%

Top Industries for Textile Knitting and Weaving Machine Setters, Operators, and Tenders

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Fabric mills	313200	46.48%	18,660	12,299	-34.09%
Apparel knitting mills	315100	17.66%	7,091	4,180	-41.05%
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Self-employed workers, primary job	000601	5.84%	2,346	2,089	-10.94%
Fiber, yarn, and thread mills	313100	5.51%	2,211	1,557	-29.60%
Textile and fabric finishing and fabric coating mills	313300	2.80%	1,125	580	-48.45%
Other textile product mills	314900	2.72%	1,090	819	-24.92%
Cut and sew apparel manufacturing	315200	1.24%	497	175	-64.70%
Apparel accessories and other apparel manufacturing	315900	0.88%	355	207	-41.57%
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	325200	0.81%	324	218	-32.90%
Employment services	561300	0.41%	165	174	5.79%
Medical equipment and supplies manufacturing	339100	0.18%	72	61	-14.49%



TORQ Analysis of Textile Knitting and Weaving Machine Setters, Operators, and Tenders to Textile Cutting Machine Setters, Operators, and Tenders

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	51-6063.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Textile Cutting Machine Setters, Operators, and Tenders	51-6062.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

TORQ RESULTS											
Grand TORQ:										83	
Ability TORQ			Skills TORQ				Knowledge TORQ				
Level			86	Level			81	Level			80
Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Rate Control	46	14	56	No Skills Upgrade Required!				No Knowledge Upgrades Required!			
Depth Perception	37	9	53								
Visualization	50	9	50								
Multilimb Coordination	48	7	62								
Near Vision	48	6	59								
Reaction Time	51	7	50								
Visual Color Discrimination	46	5	56								
Arm-Hand Steadiness	55	4	65								
Static Strength	39	5	50								
Deductive Reasoning	39	4	50								
Hearing Sensitivity	39	4	50								
Manual Dexterity	46	2	59								
Information Ordering	41	2	53								
Category Flexibility	41	2	50								
Trunk Strength	42	1	56								
Problem Sensitivity	42	1	53								
<p>LEVEL and IMPT (IMPORTANCE) refer to the Target Textile Cutting Machine Setters, Operators, and Tenders. GAP refers to level difference between Textile Knitting and Weaving Machine Setters, Operators, and Tenders and Textile Cutting Machine Setters, Operators, and Tenders.</p>											

**ASK ANALYSIS**

Ability Level Comparison - Abilities with importance scores over 50

Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Textile Cutting Machine Setters, Operators, and Tenders	Importance
Arm-Hand Steadiness	51	55	65
Multilimb Coordination	41	48	62
Manual Dexterity	44	46	59
Control Precision	51	50	59
Near Vision	42	48	59
Finger Dexterity	51	44	56
Rate Control	32	46	56
Trunk Strength	41	42	56
Visual Color Discrimination	41	46	56
Oral Comprehension	44	42	53
Problem Sensitivity	41	42	53
Information Ordering	39	41	53
Depth Perception	28	37	53
Auditory Attention	41	41	53
Speech Recognition	35	35	53
Deductive Reasoning	35	39	50
Category Flexibility	39	41	50
Perceptual Speed	41	39	50
Visualization	41	50	50
Reaction Time	44	51	50
Static Strength	34	39	50
Hearing Sensitivity	35	39	50
Speech Clarity	35	35	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Textile Cutting Machine Setters, Operators, and Tenders	Importance
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Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Textile Cutting Machine Setters, Operators, and Tenders	Importance
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Experience & Education Comparison

Related Work Experience Comparison				Required Education Level Comparison					
Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders		Textile Cutting Machine Setters, Operators, and Tenders		Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders		Textile Cutting Machine Setters, Operators, and Tenders	
10+ years	0%	9%			Doctoral	1%	0%		
8-10 years	0%	0%			Professional Degree	0%	0%		



6-8 years	0%	0%	Professional Degree	0%	0%
4-6 years	0%	0%	Post-Masters Cert	0%	0%
2-4 years	1%	0%	Master's Degree	0%	0%
1-2 years	2%	31%	Post-Bachelor Cert	0%	0%
6-12 months	26%	9%	Bachelors	0%	0%
3-6 months	1%	2%	AA or Equiv	4%	0%
1-3 months	7%	9%	Some College	0%	27%
0-1 month	47%	2%	Post-Secondary Certificate	0%	8%
None	14%	33%	High School Diploma or GED	66%	43%
			No HSD or GED	27%	20%

Textile Knitting and Weaving Machine Setters, Operators, and Tenders

Textile Cutting Machine Setters, Operators, and Tenders

Most Common Educational/Training Requirement:

Long-term on-the-job training

Moderate-term on-the-job training

Job Zone Comparison

3 - Job Zone Three: Medium Preparation Needed

3 - Job Zone Three: Medium Preparation Needed

Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.

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

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

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Tasks

Textile Knitting and Weaving Machine Setters, Operators, and Tenders

Textile Cutting Machine Setters, Operators, and Tenders

Core Tasks

Core Tasks

Generalized Work Activities:

Generalized Work Activities:

- 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.
- Repairing and Maintaining Mechanical Equipment - Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- 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.
- Monitor Processes, Materials, or Surroundings - Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.
- Repairing and Maintaining Mechanical Equipment - Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.



Specific Tasks

Occupation Specific Tasks:

- Adjust machine heating mechanisms, tensions, and speeds to produce specified products.
- Clean, oil, and lubricate machines, using air hoses, cleaning solutions, rags, oil cans, and/or grease guns.
- Confer with co-workers to obtain information about orders, processes, or problems.
- Examine looms to determine causes of loom stoppage, such as warp filling, harness breaks, or mechanical defects.
- Inspect machinery to determine whether repairs are needed.
- Inspect products to ensure that specifications are met and to determine if machines need adjustment.
- Install, level, and align machine components such as gears, chains, guides, dies, cutters, and/or needles to set up machinery for operation.
- Notify supervisors or repair staff of mechanical malfunctions.
- Observe woven cloth to detect weaving defects.
- Operate machines for test runs to verify adjustments and to obtain product samples.
- Program electronic equipment.
- Record information about work completed and machine settings.
- Remove defects in cloth by cutting and pulling out filling.
- Repair or replace worn or defective needles and other components, using hand tools.
- Set up, or set up and operate textile machines that perform textile processing and manufacturing operations such as winding, twisting, knitting, weaving, bonding, and/or stretching.
- Start machines, monitor operations, and make adjustments as needed.
- Stop machines when specified amounts of product have been produced.
- Study guides, loom patterns, samples, charts, and/or specification sheets, or confer with supervisors or engineering staff to determine setup requirements.
- Thread yarn, thread, and fabric through guides, needles, and rollers of machines for weaving, knitting, or other processing.
- Wash and blend wool, yarn, or cloth.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- clean equipment or machinery
- confer with engineering, technical or manufacturing personnel

Specific Tasks

Occupation Specific Tasks:

- Adjust cutting techniques to types of fabrics and styles of garments.
- Adjust machine controls, such as heating mechanisms, tensions, and/or speeds to produce specified products.
- Clean, oil, and lubricate machines, using air hoses, cleaning solutions, rags, oil cans, and grease guns.
- Confer with coworkers to obtain information about orders, processes, or problems.
- Inspect machinery to determine whether repairs are needed.
- Inspect products to ensure that specifications are met and to determine whether machines require adjustment.
- Install, level, and align components, such as gears, chains, guides, dies, cutters, and/or needles to set up machinery for operation.
- Notify supervisors of mechanical malfunctions.
- Operate machines for test runs to verify adjustments and to obtain product samples.
- Operate machines to cut multiple layers of fabric into parts for articles such as canvas goods, house furnishings, garments, hats, or stuffed toys.
- Place patterns on top of layers of fabric and cut fabric following patterns, using electric or manual knives, cutters, or computer numerically controlled cutting devices.
- Program electronic equipment.
- Record information about work completed and machine settings.
- Repair or replace worn or defective parts or components, using hand tools.
- Start machines, monitor operations, and make adjustments as needed.
- Stop machines when specified amounts of product have been produced.
- Study guides, samples, charts, and specification sheets; or confer with supervisors or engineering staff to determine setup requirements.
- Thread yarn, thread, or fabric through guides, needles, and rollers of machines.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- clean equipment or machinery
- confer with engineering, technical or manufacturing personnel
- examine products or work to verify conformance to specifications
- inspect machinery or equipment to determine adjustments or repairs needed
- install equipment or attachments on



- examine products or work to verify conformance 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
- 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 textile production equipment/machinery
- perform safety inspections in manufacturing or industrial setting
- read specifications
- read work order, instructions, formulas, or processing charts
- recognize characteristics of cloth or fabric
- set up production equipment or machinery
- understand technical operating, service or repair manuals
- use hand or power tools
- use precision measuring tools or equipment

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Labor Market Comparison

Maine Department of Labor.

Description	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Textile Cutting Machine Setters, Operators, and Tenders	Difference
Median Wage	N/A	\$ 24,860	N/A
10th Percentile Wage	N/A	\$ 15,530	N/A
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	N/A	\$ 29,340	N/A
90th Percentile Wage	N/A	\$ 33,940	N/A
Mean Wage	N/A	\$ 24,400	N/A
Total Employment - 2582	N/A	110	N/A
Employment Base - 2591	N/A	104	N/A
Projected Employment - 2591	N/A	90	N/A
Projected Job Growth - 2006-2591	N/A	-13.5 %	N/A
Projected Annual Openings - 2006-2591	N/A	4	N/A
Special			

Special Occupations:



National Job Posting Trends

Trend for Textile Knitting and Weaving Machine Setters, Operators, and Tenders and Textile Cutting Machine Setters, Operators, and Tenders



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

Programs

Related Programs

Industrial Machinery Main. and Repairer

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

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

Maine Statewide Promotion Opportunities for Textile Knitting and Weaving Machine Setters, Operators, and Tenders

O*NET Code	Title	Grand TORO	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings	Special
51-6031.00	Sewing Machine Operators	88	1	1,080	\$22,440.00	\$22,440.00	-8%	10	
51-6064.00	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	85	3	290	\$25,840.00	\$25,840.00	0%	0	



51-9198.00	Helpers--Production Workers	84	1	1,490	\$22,260.00	\$22,260.00	-10%	37
43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators	83	2	970	\$41,950.00	\$41,950.00	-12%	10
43-9051.00	Mail Clerks and Mail Machine Operators, Except Postal Service	83	1	490	\$23,250.00	\$23,250.00	-19%	13
51-6062.00	Textile Cutting Machine Setters, Operators, and Tenders	83	3	110	\$24,860.00	\$24,860.00	-13%	4
51-2021.00	Coil Winders, Tapers, and Finishers	83	2	90	\$31,910.00	\$31,910.00	-53%	1
51-6021.00	Pressers, Textile, Garment, and Related Materials	82	1	130	\$20,910.00	\$20,910.00	-12%	1
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	82	2	910	\$38,230.00	\$38,230.00	-26%	23
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	81	2	260	\$28,330.00	\$28,330.00	-7%	5
53-7063.00	Machine Feeders and Offbearers	81	1	480	\$26,820.00	\$26,820.00	-22%	9
45-2041.00	Graders and Sorters, Agricultural Products	80	1	170	\$17,170.00	\$17,170.00	-21%	4
51-2092.00	Team Assemblers	80	2	3,850	\$23,730.00	\$23,730.00	-7%	82
51-3091.00	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	80	2	90	\$27,600.00	\$27,600.00	0%	4
51-3092.00	Food Batchmakers	80	2	640	\$25,410.00	\$25,410.00	-7%	14

Special Occupations:

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

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Cut and sew apparel manufacturing	315200	27.94%	5,222	2,205	-57.77%
Textile furnishings mills	314100	9.79%	1,829	1,657	-9.40%



Other textile product mills	314900	9.59%	1,792	1,610	-10.18%
Household and institutional furniture manufacturing	337120	9.27%	1,732	1,318	-23.91%
Fabric mills	313200	8.18%	1,528	1,079	-29.38%
Textile and fabric finishing and fabric coating mills	313300	4.31%	806	497	-38.33%
Apparel accessories and other apparel manufacturing	315900	3.33%	623	435	-30.10%
Fiber, yarn, and thread mills	313100	3.21%	600	505	-15.78%
Other furniture related product manufacturing	337900	2.62%	490	511	4.40%
Apparel knitting mills	315100	2.27%	424	265	-37.50%
Apparel, piece goods, and notions merchant wholesalers	424300	1.88%	351	358	1.97%
Motor vehicle parts manufacturing	336300	1.21%	225	179	-20.39%
Management of companies and enterprises	551100	1.14%	212	245	15.28%
Furniture and home furnishing merchant wholesalers	423200	1.06%	197	217	9.75%
Electronic shopping and mail-order houses	454100	1.04%	194	243	25.08%

Top Industries for Textile Knitting and Weaving Machine Setters, Operators, and Tenders

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Fabric mills	313200	46.48%	18,660	12,299	-34.09%
Apparel knitting mills	315100	17.66%	7,091	4,180	-41.05%
Textile furnishings mills	314100	12.66%	5,083	4,376	-13.90%
Self-employed workers, primary job	000601	5.84%	2,346	2,089	-10.94%
Fiber, yarn, and thread mills	313100	5.51%	2,211	1,557	-29.60%
Textile and fabric finishing and fabric coating mills	313300	2.80%	1,125	580	-48.45%
Other textile product mills	314900	2.72%	1,090	819	-24.92%
Cut and sew apparel manufacturing	315200	1.24%	497	175	-64.70%
Apparel accessories and other apparel manufacturing	315900	0.88%	355	207	-41.57%
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	325200	0.81%	324	218	-32.90%
Employment services	561300	0.41%	165	174	5.79%
Medical equipment and supplies manufacturing	339100	0.18%	72	61	-14.49%

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)