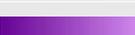
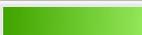




TORQ Analysis of Upholsterers to Sewing Machine Operators

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Upholsterers	51-6093.00	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:					83						
Ability TORQ		Skills TORQ		Knowledge TORQ							
Level	 92	Level	 76	Level	 82						
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	39	4	59	No Skills Upgrade Required!		No Knowledge Upgrades Required!					
<p>LEVEL and IMPT (IMPORTANCE) refer to the Target Sewing Machine Operators. GAP refers to level difference between Upholsterers and Sewing Machine Operators.</p>											

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Upholsterers	Sewing Machine Operators	Importance
Arm-Hand Steadiness	59 	51 	65 
Manual Dexterity	53 	42 	62 
Control Precision	50 	42 	62 
Rate Control	35 	39 	59 
Information Ordering	44 	37 	56 
Finger Dexterity	57 	44 	56 
Near Vision	51 	48 	56 
Visual Color Discrimination	59 	46 	56 
Problem Sensitivity	41 	39 	53 
Multilimb Coordination	51 	37 	53 
Deductive Reasoning	42 	35 	50 
Visualization	57 	39 	50 
Skill Level Comparison - Abilities with importance scores over 69			
Description	Upholsterers	Sewing Machine Operators	Importance

Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Upholsterers	Sewing Machine Operators	Importance
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Experience & Education Comparison

Related Work Experience Comparison				Required Education Level Comparison		
Description	Upholsterers	Sewing Machine Operators		Description	Upholsterers	Sewing Machine Operators
10+ years	4%	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	10%	8%		Master's Degree	0%	0%
2-4 years	0%	13%		Post-Bachelor Cert	0%	0%
1-2 years	12%	9%		Bachelors	0%	2%
6-12 months	19%	11%		AA or Equiv	5%	0%
3-6 months	1%	0%		Some College	3%	8%
1-3 months	0%	5%		Post-Secondary Certificate	25%	2%
0-1 month	10%	0%		High School Diploma or GED	55%	12%
None	41%	51%		No HSD or GED	9%	73%

Upholsterers

Sewing Machine Operators

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

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.

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.

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

1 - Job Zone One: Little or No 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.

Tasks

Upholsterers	Sewing Machine Operators
Core Tasks	Core Tasks
<p>Generalized Work Activities:</p> <ul style="list-style-type: none"> • 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. • Drafting, Laying Out, and Specifying Technical Devices, Parts, and Equipment - 	<p>Generalized Work Activities:</p> <ul style="list-style-type: none"> • 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 and arms in handling, installing, positioning,



Providing documentation, detailed instructions, drawings, or specifications to tell others about how devices, parts, equipment, or structures are to be fabricated, constructed, assembled, modified, maintained, or used.

- Thinking Creatively - Developing, designing, or creating new applications, ideas, relationships, systems, or products, including artistic contributions.
- Estimating the Quantifiable Characteristics of Products, Events, or Information - Estimating sizes, distances, and quantities; or determining time, costs, resources, or materials needed to perform a work activity.
- 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.

Specific Tasks

Occupation Specific Tasks:

- Adjust or replace webbing, padding, and/or springs, and secure them in place.
- Attach bindings or apply solutions to edges of cut material to prevent raveling.
- Attach fasteners, grommets, buttons, buckles, ornamental trim, and other accessories to covers or frames, using hand tools.
- Build furniture up with loose fiber stuffing, cotton, felt, and/or foam padding to form smooth rounded surfaces.
- Collaborate with interior designers to decorate rooms and coordinate furnishing fabrics.
- Design upholstery cover patterns and cutting plans, based on sketches, customer descriptions, or blueprints.
- Discuss upholstery fabrics, colors, and styles with customers, and provide cost estimates.
- Draw cutting lines on material following patterns, templates, sketches, or blueprints, using chalk, pencils, paint, or other methods.
- Examine furniture frames, upholstery, springs, and webbing to locate defects.
- Fit, install, and secure material on frames, using hand tools, power tools, glue, cement, and/or staples.
- Interweave and fasten strips of webbing to the backs and undersides of furniture, using small hand tools and fasteners.
- Maintain records of time required to perform each job.
- Make, repair, and/or replace automobile upholstery and convertible and vinyl tops, using knowledge of fabric and upholstery methods.
- Make, restore, and/or create custom upholstered furniture, using hand tools and knowledge of fabrics and upholstery

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.



methods.

- Measure and cut new covering materials, using patterns and measuring and cutting instruments, following sketches and design specifications.
- Operate sewing machines or sew upholstery by hand to seam cushions and join various sections of covering material.
- Pick up and deliver furniture.
- Read work orders, and apply knowledge and experience with materials in order to determine types and amounts of materials required to cover workpieces.
- Remove covering, webbing, padding, and/or defective springs from workpieces, using hand tools such as hammers and tack pullers.
- Repair furniture frames and refinish exposed wood.
- Sew rips or tears in material, or create tufting, using needles and thread.
- Stretch webbing and fabric, using webbing stretchers.

Detailed Tasks

Detailed Work Activities:

- apply adhesives, caulking, sealants, or coatings
- apply protective coating to products
- construct, erect, or repair wooden frameworks or structures
- cut or trim fabric or leather
- cut, shape, fit, or join wood or other construction materials
- distinguish colors
- estimate materials or labor requirements
- examine products or work to verify conformance to specifications
- fabricate, assemble, or disassemble manufactured products by hand
- finish or refinish floor, furniture, or related wood surfaces
- inspect products or materials for damage, defects, or shortages
- maintain production or work records
- make independent judgment in assembly procedures
- measure and mark reference points or cutting lines on workpieces
- measure, weigh, or count products or materials
- move or fit heavy objects
- operate sewing machine
- prepare building surfaces for paint, finishes, wallpaper, or adhesives
- read work order, instructions, formulas, or processing charts
- recognize characteristics of cloth or fabric
- repair tears or defects in fabrics, garments,

- Position items under needles, using marks on 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



or leather products

- sew by hand
- spread fabric or clothing article on worktable or ironing board
- use creativity to art or design work
- use hand or power tools
- use portable electric fabric cutter

Labor Market Comparison

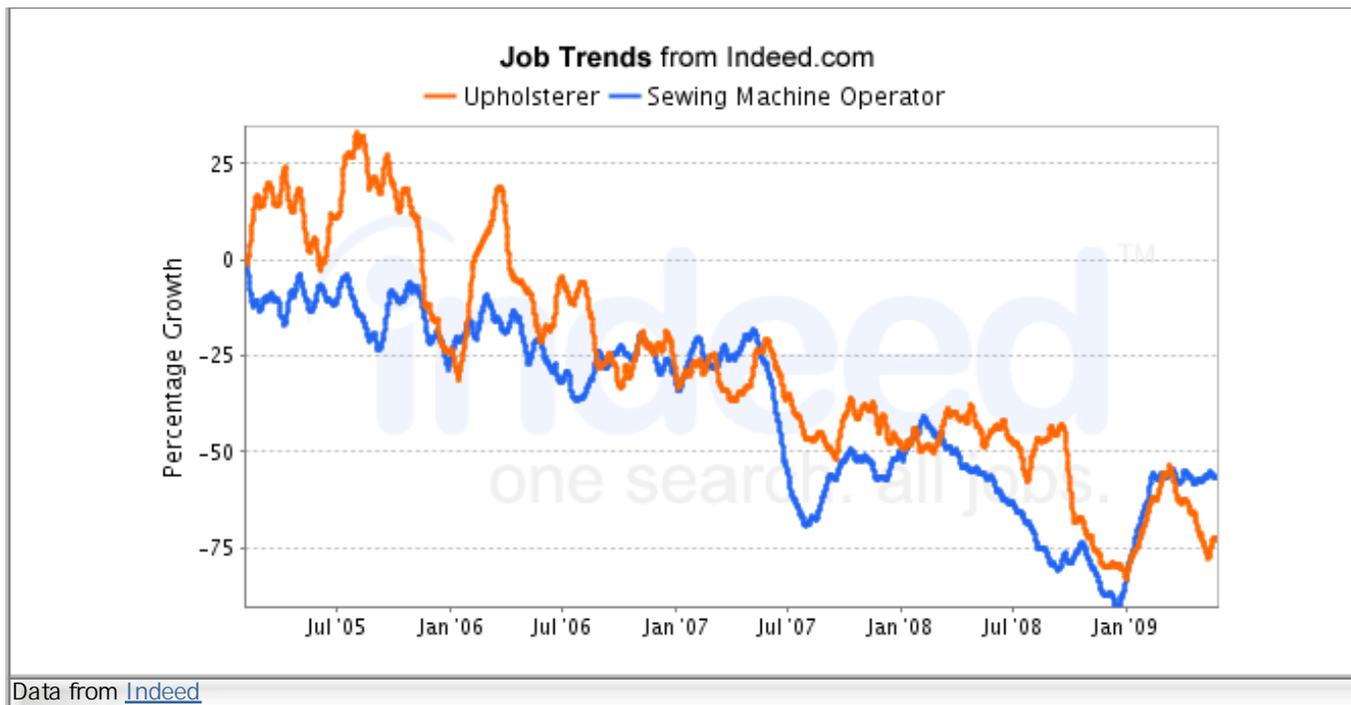
Maine Department of Labor.

Description	Upholsterers	Sewing Machine Operators	Difference
Median Wage	\$ 27,230	\$ 22,440	\$(4,790)
10th Percentile Wage	\$ 21,470	\$ 16,350	\$(5,120)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 33,780	\$ 27,200	\$(6,580)
90th Percentile Wage	\$ 52,470	\$ 31,710	\$(20,760)
Mean Wage	\$ 31,100	\$ 23,030	\$(8,070)
Total Employment - 2586	70	1,080	1,010
Employment Base - 2006	208	1,077	869
Projected Employment - 2595	196	990	794
Projected Job Growth - 2006-2595	-5.8 %	-8.1 %	-2.3 %
Projected Annual Openings - 2006-2595	3	10	7
Special			

Special Occupations:

National Job Posting Trends

Trend for Upholsterers and Sewing Machine Operators



Programs

No information on programs or the occupation.

Maine Statewide Promotion Opportunities for Upholsterers

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings	Special
51-6093.00	Upholsterers	100	3	70	\$27,230.00	\$0.00	-6%	3	
51-7011.00	Cabinetmakers and Bench Carpenters	83	3	660	\$29,800.00	\$2,570.00	-31%	27	
51-9022.00	Grinding and Polishing Workers, Hand	83	1	270	\$31,060.00	\$3,830.00	4%	5	
51-2021.00	Coil Winders, Tapers, and Finishers	83	2	90	\$31,910.00	\$4,680.00	-53%	1	
51-4121.07	Solderers and Brazers	80	2	1,610	\$38,030.00	\$10,800.00	7%	49	
51-4121.06	Welders, Cutters, and Welder Fitters	80	2	1,610	\$38,030.00	\$10,800.00	7%	49	
43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators	80	2	970	\$41,950.00	\$14,720.00	-12%	10	

51-6092.00	Fabric and Apparel Patternmakers	79	2	20	\$29,670.00	\$2,440.00	-6%	0
51-3021.00	Butchers and Meat Cutters	79	2	430	\$31,310.00	\$4,080.00	5%	16
51-4192.00	Lay-Out Workers, Metal and Plastic	79	2	180	\$43,870.00	\$16,640.00	-24%	3
51-2031.00	Engine and Other Machine Assemblers	78	3	20	\$29,010.00	\$1,780.00	-45%	1
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	78	2	260	\$28,330.00	\$1,100.00	-7%	5
47-2051.00	Cement Masons and Concrete Finishers	78	3	640	\$29,060.00	\$1,830.00	7%	25
47-2141.00	Painters, Construction and Maintenance	78	4	1,750	\$33,730.00	\$6,500.00	2%	59
51-4122.00	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	78	2	120	\$36,960.00	\$9,730.00	2%	3

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 Upholsterers

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Household and institutional furniture manufacturing	337120	36.03%	19,747	16,491	-16.48%
Self-employed workers, primary job	000601	23.47%	12,864	12,471	-3.06%
Personal and household goods repair and maintenance	811400	14.93%	8,184	7,599	-7.15%
Automotive body, paint, interior, and glass repair	811120	5.56%	3,045	3,235	6.24%
Self-employed workers, secondary job	000602	2.05%	1,123	1,138	1.40%
Motor vehicle parts manufacturing	336300	1.91%	1,046	758	-27.56%
Unpaid family workers, primary job	000701	1.73%	948	683	-28.01%
Other furniture related product manufacturing	337900	1.66%	910	865	-5.00%
Furniture stores	442100	1.61%	883	820	-7.16%
Support activities for air transportation	488100	1.13%	622	684	9.92%
Ship and boat building	336600	1.10%	603	615	1.85%
Aerospace product and parts manufacturing	336400	1.00%	549	508	-7.33%
Furniture and home furnishing merchant wholesalers	423200	0.59%	321	320	-0.13%
Textile furnishings mills	314100	0.48%	260	215	-17.56%
Other textile product mills	314900	0.42%	232	189	-18.26%

TORQ Analysis of Upholsterers to Cabinetmakers and Bench Carpenters

ANALYSIS INPUT					
Transfer	Title	O* NET	Filters		
From Title:	Upholsterers	51 -6093.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Cabinetmakers and Bench Carpenters	51 -7011.00	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	 90	Level	 88	Level	 72

Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Reaction Time	53	18	72	Mathematics	52	8	69	No Knowledge Upgrades Required!			
Auditory Attention	46	14	53	Active Listening	45	6	75				
Stamina	39	13	50								
Rate Control	44	9	59								
Hearing Sensitivity	41	9	56								
Selective Attention	50	8	56								
Information Ordering	50	6	59								
Dynamic Strength	42	7	50								
Control Precision	55	5	68								
Oral Expression	50	6	53								
Manual Dexterity	57	4	75								
Speed of Limb Movement	39	5	53								
Response Orientation	44	5	50								
Oral Comprehension	46	4	50								
Written Comprehension	44	3	53								
Far Vision	46	2	59								
Gross Body Coordination	37	2	53								

Problem Sensitivity	42	1	53
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LEVEL and IMPT (IMPORTANCE) refer to the Target Cabinetmakers and Bench Carpenters. GAP refers to level difference between Upholsterers and Cabinetmakers and Bench Carpenters.

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Upholsterers	Cabinetmakers and Bench Carpenters	Importance
Arm-Hand Steadiness	59	51	78
Finger Dexterity	57	57	78
Manual Dexterity	53	57	75
Reaction Time	35	53	72
Control Precision	50	55	68
Trunk Strength	48	46	68
Multilimb Coordination	51	46	65
Near Vision	51	48	65
Static Strength	53	51	62
Information Ordering	44	50	59
Visualization	57	53	59
Rate Control	35	44	59
Far Vision	44	46	59
Category Flexibility	48	44	56
Selective Attention	42	50	56
Visual Color Discrimination	59	48	56
Hearing Sensitivity	32	41	56
Speech Clarity	37	35	56
Written Comprehension	41	44	53
Oral Expression	44	50	53
Problem Sensitivity	41	42	53
Speed of Limb Movement	34	39	53
Gross Body Coordination	35	37	53
Auditory Attention	32	46	53
Speech Recognition	39	39	53
Oral Comprehension	42	46	50
Deductive Reasoning	42	42	50
Perceptual Speed	39	35	50
Response Orientation	39	44	50
Dynamic Strength	35	42	50
Stamina	26	39	50
Extent Flexibility	46	44	50
Depth Perception	41	41	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Upholsterers	Cabinetmakers and Bench Carpenters	Importance
Active Listening	39 	45 	75 
Mathematics	44 	52 	69 

Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Upholsterers	Cabinetmakers and Bench Carpenters	Importance
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Experience & Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Upholsterers	Cabinetmakers and Bench Carpenters	Description	Upholsterers	Cabinetmakers and Bench Carpenters
10+ years	4% 	0% 	Doctoral	0% 	0% 
8-10 years	0% 	1% 	Professional Degree	0% 	0% 
6-8 years	0% 	0% 	Post-Masters Cert	0% 	0% 
4-6 years	10% 	27% 	Master's Degree	0% 	0% 
2-4 years	0% 	20% 	Post-Bachelor Cert	0% 	0% 
1-2 years	12% 	12% 	Bachelors	0% 	0% 
6-12 months	19% 	8% 	AA or Equiv	5% 	0% 
3-6 months	1% 	1% 	Some College	3% 	36% 
1-3 months	0% 	9% 	Post-Secondary Certificate	25% 	10% 
0-1 month	10% 	1% 	High School Diploma or GED	55% 	33% 
None	41% 	17% 	No HSD or GED	9% 	18% 

Upholsterers

Cabinetmakers and Bench Carpenters

Most Common Educational/Training Requirement:

Long-term on-the-job training

Long-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

Upholsterers

Cabinetmakers and Bench Carpenters

Core Tasks

Core Tasks



Generalized Work Activities:

- 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.
- Drafting, Laying Out, and Specifying Technical Devices, Parts, and Equipment - Providing documentation, detailed instructions, drawings, or specifications to tell others about how devices, parts, equipment, or structures are to be fabricated, constructed, assembled, modified, maintained, or used.
- Thinking Creatively - Developing, designing, or creating new applications, ideas, relationships, systems, or products, including artistic contributions.
- Estimating the Quantifiable Characteristics of Products, Events, or Information - Estimating sizes, distances, and quantities; or determining time, costs, resources, or materials needed to perform a work activity.
- 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.

Specific Tasks

Occupation Specific Tasks:

- Adjust or replace webbing, padding, and/or springs, and secure them in place.
- Attach bindings or apply solutions to edges of cut material to prevent raveling.
- Attach fasteners, grommets, buttons, buckles, ornamental trim, and other accessories to covers or frames, using hand tools.
- Build furniture up with loose fiber stuffing, cotton, felt, and/or foam padding to form smooth rounded surfaces.
- Collaborate with interior designers to decorate rooms and coordinate furnishing fabrics.
- Design upholstery cover patterns and cutting plans, based on sketches, customer descriptions, or blueprints.
- Discuss upholstery fabrics, colors, and styles with customers, and provide cost estimates.
- Draw cutting lines on material following patterns, templates, sketches, or blueprints, using chalk, pencils, paint, or other methods.
- Examine furniture frames, upholstery, springs, and webbing to locate defects.
- Fit, install, and secure material on frames, using hand tools, power tools, glue, cement, and/or staples.
- Interweave and fasten strips of webbing to

Generalized Work Activities:

- 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 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.

Specific Tasks

Occupation Specific Tasks:

- Apply masonite, formica, and vinyl surfacing materials.
- Attach parts and subassemblies together to form completed units, using glue, dowels, nails, screws, and/or clamps.
- Bore holes for insertion of screws or dowels, by hand or using boring machines.
- Cut timber to the right size and shape and trim parts of joints to ensure a snug fit, using hand tools such as planes, chisels, or wood files.
- Design furniture, using computer-aided drawing programs.
- Dip, brush, or spray assembled articles with protective or decorative finishes such as stain, varnish, paint, or lacquer.
- Discuss projects with customers, and draw up detailed specifications.
- Establish the specifications of articles to be constructed or repaired, and plan the methods and operations for shaping and assembling parts, based on blueprints, drawings, diagrams, or oral or written instructions.
- Estimate the amounts, types, and costs of needed materials.
- Install hardware such as hinges, handles, catches, and drawer pulls, using hand tools.
- Match materials for color, grain, and texture, giving attention to knots and other features of the wood.
- Measure and mark dimensions of parts on paper or lumber stock prior to cutting, following blueprints, to ensure a tight fit and quality product.
- Perform final touch-ups with sandpaper and steel wool.
- Produce and assemble components of articles such as store fixtures, office



the backs and undersides of furniture, using small hand tools and fasteners.

- Maintain records of time required to perform each job.
- Make, repair, and/or replace automobile upholstery and convertible and vinyl tops, using knowledge of fabric and upholstery methods.
- Make, restore, and/or create custom upholstered furniture, using hand tools and knowledge of fabrics and upholstery methods.
- Measure and cut new covering materials, using patterns and measuring and cutting instruments, following sketches and design specifications.
- Operate sewing machines or sew upholstery by hand to seam cushions and join various sections of covering material.
- Pick up and deliver furniture.
- Read work orders, and apply knowledge and experience with materials in order to determine types and amounts of materials required to cover workpieces.
- Remove covering, webbing, padding, and/or defective springs from workpieces, using hand tools such as hammers and tack pullers.
- Repair furniture frames and refinish exposed wood.
- Sew rips or tears in material, or create tufting, using needles and thread.
- Stretch webbing and fabric, using webbing stretchers.

Detailed Tasks

Detailed Work Activities:

- apply adhesives, caulking, sealants, or coatings
- apply protective coating to products
- construct, erect, or repair wooden frameworks or structures
- cut or trim fabric or leather
- cut, shape, fit, or join wood or other construction materials
- distinguish colors
- estimate materials or labor requirements
- examine products or work to verify conformance to specifications
- fabricate, assemble, or disassemble manufactured products by hand
- finish or refinish floor, furniture, or related wood surfaces
- inspect products or materials for damage, defects, or shortages
- maintain production or work records
- make independent judgment in assembly procedures
- measure and mark reference points or

equipment, cabinets, and high-grade furniture.

- Program computers to operate machinery.
- Reinforce joints with nails or other fasteners to prepare articles for finishing.
- Repair or alter wooden furniture, cabinetry, fixtures, paneling, and other pieces.
- Set up and operate machines, including power saws, jointers, mortisers, tenoners, molders, and shapers, to cut, mold, and shape woodstock and wood substitutes.
- Trim, sand, and scrape surfaces and joints to prepare articles for finishing.
- Verify dimensions, and check the quality and fit of pieces in order to ensure adherence to specifications.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- build or install cabinets or related interior wood fixtures
- examine products or work to verify conformance to specifications
- fabricate, assemble, or disassemble manufactured products by hand
- lay out woodworking projects
- measure and mark reference points or cutting lines on workpieces
- monitor production machinery/equipment operation to detect problems
- move or fit heavy objects
- operate woodworking equipment/machinery
- perform safety inspections in manufacturing or industrial setting
- prepare building surfaces for paint, finishes, wallpaper, or adhesives
- read blueprints
- read specifications
- read technical drawings
- set up computer numerical control machines
- set up production equipment or machinery
- understand machine setup instructions
- understand technical operating, service or repair manuals
- use hand or power tools
- use hand or power woodworking tools
- use precision measuring tools or equipment

Tools - Examples

- Adjustable hand wrenches
- Hand augers
- AWMs



cutting lines on workpieces

- measure, weigh, or count products or materials
- move or fit heavy objects
- operate sewing machine
- prepare building surfaces for paint, finishes, wallpaper, or adhesives
- read work order, instructions, formulas, or processing charts
- recognize characteristics of cloth or fabric
- repair tears or defects in fabrics, garments, or leather products
- sew by hand
- spread fabric or clothing article on worktable or ironing board
- use creativity to art or design work
- use hand or power tools
- use portable electric fabric cutter

- Edge banders
- Bandsaws
- Bench dogs
- Bench vises
- T-bevels
- Biscuit joining machines
- Line borers
- Boring machines
- Locking C-clamps
- Dial calipers
- Angle dividers
- Tenoners
- Protective ear plugs
- Bastard flat files
- Safety goggles
- Claw hammers
- Bar clamps
- Braces and bits
- Band clamps
- Bowl lathes
- Precision levels
- Locking pliers
- Mallets
- Marking gauges
- Metal punches
- Digital micrometers
- Computerized numerical control CNC routers
- Moisture meters
- Paint application brushes
- Paint application rollers
- Paint spray guns
- Personal computers



- Block planes
- Plumb bobs
- Pneumatic nail guns
- Adjustable jigs
- Power drills
- Nail guns
- Jointers
- Laminate trimmers
- Belt sanders
- Chop saws
- Power screwguns
- Profile molders
- Heated putty knives
- Scrapers
- Steel rules
- Safety glasses
- Hand sanders
- Back saws
- Phillips head screwdrivers
- Marking knives
- Tool sharpeners
- Metal shears
- Lacquer booths
- Combination squares
- Pneumatic staplers
- T-squares
- Measuring tapes
- Templates
- Spindle shapers
- Radial drills
- Burn-in knives
- Bowl gouges

- Drill presses

Labor Market Comparison

Maine Department of Labor.

Description	Upholsterers	Cabinetmakers and Bench Carpenters	Difference
Median Wage	\$ 27,230	\$ 29,800	\$ 2,570
10th Percentile Wage	\$ 21,470	\$ 21,100	\$(370)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 33,780	\$ 36,010	\$ 2,230
90th Percentile Wage	\$ 52,470	\$ 41,280	\$(11,190)
Mean Wage	\$ 31,100	\$ 31,210	\$ 110
Total Employment - 2586	70	660	590
Employment Base - 2006	208	903	695
Projected Employment - 2595	196	627	431
Projected Job Growth - 2006-2595	-5.8 %	-30.6 %	-24.8 %
Projected Annual Openings - 2006-2595	3	27	24
Special			

Special Occupations:

National Job Posting Trends

Trend for Upholsterers and Cabinetmakers and Bench Carpenters



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



Programs

Related Programs

Cabinet Maker and Millworker

Cabinetmaking and Millwork/Milwright. 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 Upholsterers

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings	Special
51-6093.00	Upholsterers	100	3	70	\$27,230.00	\$0.00	-6%	3	
51-7011.00	Cabinetmakers and Bench Carpenters	83	3	660	\$29,800.00	\$2,570.00	-31%	27	
51-2021.00	Coil Winders, Tapers, and Finishers	83	2	90	\$31,910.00	\$4,680.00	-53%	1	
51-9022.00	Grinding and Polishing Workers, Hand	83	1	270	\$31,060.00	\$3,830.00	4%	5	
43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators	80	2	970	\$41,950.00	\$14,720.00	-12%	10	
51-4121.07	Solderers and Brazers	80	2	1,610	\$38,030.00	\$10,800.00	7%	49	
51-4121.06	Welders, Cutters, and Welder Fitters	80	2	1,610	\$38,030.00	\$10,800.00	7%	49	
51-3021.00	Butchers and Meat Cutters	79	2	430	\$31,310.00	\$4,080.00	5%	16	
51-4192.00	Lay-Out Workers, Metal and Plastic	79	2	180	\$43,870.00	\$16,640.00	-24%	3	
51-6092.00	Fabric and Apparel Patternmakers	79	2	20	\$29,670.00	\$2,440.00	-6%	0	
47-2051.00	Cement Masons and Concrete Finishers	78	3	640	\$29,060.00	\$1,830.00	7%	25	



47-2141.00	Painters, Construction and Maintenance	78	4	1,750	\$33,730.00	\$6,500.00	2%	59
51-4122.00	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	78	2	120	\$36,960.00	\$9,730.00	2%	3
51-2031.00	Engine and Other Machine Assemblers	78	3	20	\$29,010.00	\$1,780.00	-45%	1
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	78	2	260	\$28,330.00	\$1,100.00	-7%	5

Special Occupations:

Top Industries for Cabinetmakers and Bench Carpenters

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Wood kitchen cabinet and countertop manufacturing	337110	36.87%	54,960	60,851	10.72%
Self-employed workers, primary job	000601	11.98%	17,863	19,031	6.54%
Household and institutional furniture manufacturing	337120	11.28%	16,815	12,795	-23.91%
Other wood product manufacturing	321900	10.54%	15,712	14,806	-5.77%
Office furniture (including fixtures) manufacturing	337200	9.87%	14,718	13,839	-5.97%
Building material and supplies dealers	444100	3.03%	4,522	5,779	27.79%
Self-employed workers, secondary job	000602	1.98%	2,947	2,934	-0.45%
Veneer, plywood, and engineered wood product manufacturing	321200	1.06%	1,580	1,720	8.89%
Residential building construction	236100	0.94%	1,397	1,573	12.61%
Employment services	561300	0.74%	1,101	1,393	26.56%
Furniture stores	442100	0.73%	1,091	1,113	2.03%
Unpaid family workers, primary job	000701	0.59%	876	693	-20.89%
Lumber and other construction materials merchant wholesalers	423300	0.47%	707	812	14.86%
Motor vehicle body and trailer manufacturing	336200	0.39%	582	569	-2.15%

Nonresidential building construction	236200	0.26%	390	437	12.05%
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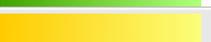
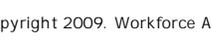
Top Industries for Upholsterers

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Household and institutional furniture manufacturing	337120	36.03%	19,747	16,491	-16.48%
Self-employed workers, primary job	000601	23.47%	12,864	12,471	-3.06%
Personal and household goods repair and maintenance	811400	14.93%	8,184	7,599	-7.15%
Automotive body, paint, interior, and glass repair	811120	5.56%	3,045	3,235	6.24%
Self-employed workers, secondary job	000602	2.05%	1,123	1,138	1.40%
Motor vehicle parts manufacturing	336300	1.91%	1,046	758	-27.56%
Unpaid family workers, primary job	000701	1.73%	948	683	-28.01%
Other furniture related product manufacturing	337900	1.66%	910	865	-5.00%
Furniture stores	442100	1.61%	883	820	-7.16%
Support activities for air transportation	488100	1.13%	622	684	9.92%
Ship and boat building	336600	1.10%	603	615	1.85%
Aerospace product and parts manufacturing	336400	1.00%	549	508	-7.33%
Furniture and home furnishing merchant wholesalers	423200	0.59%	321	320	-0.13%
Textile furnishings mills	314100	0.48%	260	215	-17.56%
Other textile product mills	314900	0.42%	232	189	-18.26%

TORQ Analysis of Upholsterers to Grinding and Polishing Workers, Hand

ANALYSIS INPUT					
Transfer	Title	O* NET	Filters		
From Title:	Upholsterers	51 -6093.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Grinding and Polishing Workers, Hand	51 -9022.00	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	 93	Level	 77	Level	 80		
Gaps To Narrow if Possible				Upgrade These Skills		Knowledge to Add	
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt
Reaction Time	46	11	53	No Skills Upgrade Required!		No Knowledge Upgrades Required!	
Selective Attention	44	2	56				
Inductive Reasoning	41	2	50				
<p>LEVEL and IMPT (IMPORTANCE) refer to the Target Grinding and Polishing Workers, Hand. GAP refers to level difference between Upholsterers and Grinding and Polishing Workers, Hand.</p>							

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Upholsterers	Grinding and Polishing Workers, Hand	Importance
Arm-Hand Steadiness	59 	51 	68 
Manual Dexterity	53 	46 	65 
Finger Dexterity	57 	51 	65 
Control Precision	50 	50 	62 
Near Vision	51 	48 	59 
Oral Comprehension	42 	41 	56 
Problem Sensitivity	41 	41 	56 
Selective Attention	42 	44 	56 
Multilimb Coordination	51 	42 	56 
Oral Expression	44 	41 	53 
Visualization	57 	46 	53 

Reaction Time	35	46	53
Trunk Strength	48	41	53
Deductive Reasoning	42	39	50
Inductive Reasoning	39	41	50
Information Ordering	44	41	50
Category Flexibility	48	44	50
Speech Recognition	39	37	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Upholsterers	Grinding and Polishing Workers, Hand	Importance
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Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Upholsterers	Grinding and Polishing Workers, Hand	Importance
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Experience & Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Upholsterers	Grinding and Polishing Workers, Hand	Description	Upholsterers	Grinding and Polishing Workers, Hand
10+ years	4%	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	10%	0%	Master's Degree	0%	0%
2-4 years	0%	5%	Post-Bachelor Cert	0%	0%
1-2 years	12%	8%	Bachelors	0%	19%
6-12 months	19%	24%	AA or Equiv	5%	0%
3-6 months	1%	0%	Some College	3%	0%
1-3 months	0%	5%	Post-Secondary Certificate	25%	0%
0-1 month	10%	42%	High School Diploma or GED	55%	31%
None	41%	13%	No HSD or GED	9%	49%

Upholsterers

Grinding and Polishing Workers, Hand

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

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.

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.

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

1 - Job Zone One: Little or No 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.



Tasks

Upholsterers

Core Tasks

Generalized Work Activities:

- 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.
- Drafting, Laying Out, and Specifying Technical Devices, Parts, and Equipment - Providing documentation, detailed instructions, drawings, or specifications to tell others about how devices, parts, equipment, or structures are to be fabricated, constructed, assembled, modified, maintained, or used.
- Thinking Creatively - Developing, designing, or creating new applications, ideas, relationships, systems, or products, including artistic contributions.
- Estimating the Quantifiable Characteristics of Products, Events, or Information - Estimating sizes, distances, and quantities; or determining time, costs, resources, or materials needed to perform a work activity.
- 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.

Specific Tasks

Occupation Specific Tasks:

- Adjust or replace webbing, padding, and/or springs, and secure them in place.
- Attach bindings or apply solutions to edges of cut material to prevent raveling.
- Attach fasteners, grommets, buttons, buckles, ornamental trim, and other accessories to covers or frames, using hand tools.
- Build furniture up with loose fiber stuffing, cotton, felt, and/or foam padding to form smooth rounded surfaces.
- Collaborate with interior designers to decorate rooms and coordinate furnishing fabrics.
- Design upholstery cover patterns and cutting plans, based on sketches, customer descriptions, or blueprints.
- Discuss upholstery fabrics, colors, and styles with customers, and provide cost estimates.
- Draw cutting lines on material following patterns, templates, sketches, or blueprints, using chalk, pencils, paint, or other methods.

Grinding and Polishing Workers, Hand

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).
- 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.
- 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.
- Documenting/Recording Information - Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.
- 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:

- Apply solutions and chemicals to equipment, objects, or parts, using hand tools.
- Clean brass particles from files by drawing file cards through file grooves.
- File grooved, contoured, and irregular surfaces of metal objects, such as metalworking dies and machine parts, to conform to templates, other parts, layouts, or blueprint specifications.
- Fill cracks or imperfections in marble with wax that matches the stone color.
- Grind, sand, clean, or polish objects or parts to correct defects or to prepare surfaces for further finishing, using hand tools and power tools.
- Load and adjust workpieces onto equipment or work tables, using hand tools.
- Mark defects such as knotholes, cracks, and splits for repair.
- Measure and mark equipment, objects, or parts to ensure grinding and polishing standards are met.
- Move controls to adjust, start, or stop



- Examine furniture frames, upholstery, springs, and webbing to locate defects.
- Fit, install, and secure material on frames, using hand tools, power tools, glue, cement, and/or staples.
- Interweave and fasten strips of webbing to the backs and undersides of furniture, using small hand tools and fasteners.
- Maintain records of time required to perform each job.
- Make, repair, and/or replace automobile upholstery and convertible and vinyl tops, using knowledge of fabric and upholstery methods.
- Make, restore, and/or create custom upholstered furniture, using hand tools and knowledge of fabrics and upholstery methods.
- Measure and cut new covering materials, using patterns and measuring and cutting instruments, following sketches and design specifications.
- Operate sewing machines or sew upholstery by hand to seam cushions and join various sections of covering material.
- Pick up and deliver furniture.
- Read work orders, and apply knowledge and experience with materials in order to determine types and amounts of materials required to cover workpieces.
- Remove covering, webbing, padding, and/or defective springs from workpieces, using hand tools such as hammers and tack pullers.
- Repair furniture frames and refinish exposed wood.
- Sew rips or tears in material, or create tufting, using needles and thread.
- Stretch webbing and fabric, using webbing stretchers.

Detailed Tasks

Detailed Work Activities:

- apply adhesives, caulking, sealants, or coatings
- apply protective coating to products
- construct, erect, or repair wooden frameworks or structures
- cut or trim fabric or leather
- cut, shape, fit, or join wood or other construction materials
- distinguish colors
- estimate materials or labor requirements
- examine products or work to verify conformance to specifications

...to adjust, start, or stop equipment during grinding and polishing processes.

- Record product and processing data on specified forms.
- Remove completed workpieces from equipment or work tables, using hand tools, and place workpieces in containers.
- Repair and maintain equipment, objects, or parts, using hand tools.
- Select files or other abrasives, according to materials, sizes and shapes of workpieces, amount of stock to be removed, finishes specified, and steps in finishing processes.
- Sharpen abrasive grinding tools, using machines and hand tools.
- Spread emery powder or other polishing compounds on stone, or wet stone surfaces using hoses, then guide buffing wheels over stone to polish surfaces.
- Study blueprints or layouts to determine how to lay out workpieces or saw out templates.
- Transfer equipment, objects, or parts to specified work areas, using moving devices.
- Trim, scrape, or deburr objects or parts, using chisels, scrapers, and other hand tools and equipment.
- Verify quality of finished workpieces by inspecting them, comparing them to templates, measuring their dimensions, or testing them in working machinery.
- Wash grit from stone, using hoses.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- cut or shape stone, tile, brick, or related material
- examine products or work to verify conformance to specifications
- fabricate, assemble, or disassemble manufactured products by hand
- maintain production or work records
- measure, weigh, or count products or materials
- monitor the quantity of assembly output
- move or fit heavy objects
- operate hoist, winch, or hydraulic boom
- perform repetitive tasks in assembly setting
- sharpen metal objects
- use hand or power tools
- use precision measuring tools or equipment



- fabricate, assemble, or disassemble manufactured products by hand
- finish or refinish floor, furniture, or related wood surfaces
- inspect products or materials for damage, defects, or shortages
- maintain production or work records
- make independent judgment in assembly procedures
- measure and mark reference points or cutting lines on workpieces
- measure, weigh, or count products or materials
- move or fit heavy objects
- operate sewing machine
- prepare building surfaces for paint, finishes, wallpaper, or adhesives
- read work order, instructions, formulas, or processing charts
- recognize characteristics of cloth or fabric
- repair tears or defects in fabrics, garments, or leather products
- sew by hand
- spread fabric or clothing article on worktable or ironing board
- use creativity to art or design work
- use hand or power tools
- use portable electric fabric cutter

Labor Market Comparison

Maine Department of Labor.

Description	Upholsterers	Grinding and Polishing Workers, Hand	Difference
Median Wage	\$ 27,230	\$ 31,060	\$ 3,830
10th Percentile Wage	\$ 21,470	\$ 25,410	\$ 3,940
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 33,780	\$ 38,860	\$ 5,080
90th Percentile Wage	\$ 52,470	\$ 46,500	\$(5,970)
Mean Wage	\$ 31,100	\$ 33,140	\$ 2,040
Total Employment - 2586	70	270	200
Employment Base - 2006	208	264	56
Projected Employment - 2595	196	274	78
Projected Job Growth - 2006-2595	-5.8 %	3.8 %	9.5 %
Projected Annual Openings - 2006-2595	3	5	2
Special			

Special Occupations:

National Job Posting Trends

Trend for Upholsterers and Grinding and Polishing Workers, Hand



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

Programs

No information on programs or the occupation.

Maine Statewide Promotion Opportunities for Upholsterers

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51-4121.07	Solderers and Brazers	80	2	1,610	\$38,030.00	\$10,800.00	7%	49	



43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators	80	2	970	\$41,950.00	\$14,720.00	-12%	10
51-4121.06	Welders, Cutters, and Welder Fitters	80	2	1,610	\$38,030.00	\$10,800.00	7%	49
51-3021.00	Butchers and Meat Cutters	79	2	430	\$31,310.00	\$4,080.00	5%	16
51-4192.00	Lay-Out Workers, Metal and Plastic	79	2	180	\$43,870.00	\$16,640.00	-24%	3
51-6092.00	Fabric and Apparel Patternmakers	79	2	20	\$29,670.00	\$2,440.00	-6%	0
47-2051.00	Cement Masons and Concrete Finishers	78	3	640	\$29,060.00	\$1,830.00	7%	25
47-2141.00	Painters, Construction and Maintenance	78	4	1,750	\$33,730.00	\$6,500.00	2%	59
51-4122.00	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	78	2	120	\$36,960.00	\$9,730.00	2%	3
51-9122.00	Painters, Transportation Equipment	78	2	320	\$32,230.00	\$5,000.00	2%	8
51-2031.00	Engine and Other Machine Assemblers	78	3	20	\$29,010.00	\$1,780.00	-45%	1

Special Occupations:

Top Industries for Grinding and Polishing Workers, Hand

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Foundries	331500	12.57%	5,627	4,080	-27.49%
Plastics product manufacturing	326100	7.58%	3,395	3,599	6.00%
Coating, engraving, heat treating, and allied activities	332800	6.40%	2,867	2,350	-18.03%
Wood kitchen cabinet and countertop manufacturing	337110	5.92%	2,651	2,935	10.72%

Aerospace product and parts manufacturing	336400	5.12%	2,290	2,333	1.84%
Architectural and structural metals manufacturing	332300	4.70%	2,104	2,248	6.80%
Ship and boat building	336600	4.06%	1,819	2,036	11.93%
Other fabricated metal product manufacturing	332900	3.99%	1,787	1,583	-11.39%
Glass and glass product manufacturing	327200	3.89%	1,742	1,520	-12.76%
Household and institutional furniture manufacturing	337120	3.55%	1,589	1,209	-23.91%
Office furniture (including fixtures) manufacturing	337200	2.88%	1,289	1,212	-5.97%
Machine shops	332710	2.85%	1,277	1,056	-17.28%
Motor vehicle body and trailer manufacturing	336200	2.68%	1,200	1,174	-2.15%
Medical equipment and supplies manufacturing	339100	2.47%	1,106	1,131	2.29%
Other wood product manufacturing	321900	2.03%	910	858	-5.77%

Top Industries for Upholsterers

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Household and institutional furniture manufacturing	337120	36.03%	19,747	16,491	-16.48%
Self-employed workers, primary job	000601	23.47%	12,864	12,471	-3.06%
Personal and household goods repair and maintenance	811400	14.93%	8,184	7,599	-7.15%
Automotive body, paint, interior, and glass repair	811120	5.56%	3,045	3,235	6.24%
Self-employed workers, secondary job	000602	2.05%	1,123	1,138	1.40%
Motor vehicle parts manufacturing	336300	1.91%	1,046	758	-27.56%
Unpaid family workers, primary job	000701	1.73%	948	683	-28.01%
Other furniture related product manufacturing	337900	1.66%	910	865	-5.00%
Furniture stores	442100	1.61%	883	820	-7.16%
Support activities for air transportation	488100	1.13%	622	684	9.92%
Ship and boat building	336600	1.10%	603	615	1.85%
Aerospace product and parts manufacturing	336400	1.00%	549	508	-7.33%
Furniture and home furnishing merchant wholesalers	423200	0.59%	321	320	-0.13%
Textile furnishings mills	314100	0.48%	260	215	-17.56%

Other textile product mills	314900	0.42%	232	189	-18.26%
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TORQ Analysis of Upholsterers to Coil Winders, Tapers, and Finishers

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Upholsterers	51-6093.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Coil Winders, Tapers, and Finishers	51-2021.00	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	89	Level	77	Level	83						
Gaps To Narrow if Possible		Upgrade These Skills		Knowledge to Add							
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
No Critical Gaps Recorded!				No Skills Upgrade Required!				No Knowledge Upgrades Required!			
<p>LEVEL and IMPT (IMPORTANCE) refer to the Target Coil Winders, Tapers, and Finishers. GAP refers to level difference between Upholsterers and Coil Winders, Tapers, and Finishers.</p>											

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Upholsterers	Coil Winders, Tapers, and Finishers	Importance
Arm-Hand Steadiness	59	44	68
Finger Dexterity	57	44	62
Manual Dexterity	53	42	59
Control Precision	50	44	59
Near Vision	51	44	59
Oral Comprehension	42	42	53
Oral Expression	44	44	50
Skill Level Comparison - Abilities with importance scores over 69			
Description	Upholsterers	Coil Winders, Tapers, and Finishers	Importance
Knowledge Level Comparison - Knowledge with importance scores over 69			
Description	Upholsterers	Coil Winders, Tapers, and Finishers	Importance

Experience & Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Upholsterers	Coil Winders, Tapers, and Finishers	Description	Upholsterers	Coil Winders, Tapers, and Finishers
10+ years	4%	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	10%	0%	Master's Degree	0%	0%
2-4 years	0%	2%	Post-Bachelor Cert	0%	0%
1-2 years	12%	18%	Bachelors	0%	0%
6-12 months	19%	28%	AA or Equiv	5%	0%
3-6 months	1%	5%	Some College	3%	0%
1-3 months	0%	1%	Post-Secondary Certificate	25%	2%
0-1 month	10%	5%	High School Diploma or GED	55%	51%
None	41%	38%	No HSD or GED	9%	46%

Upholsterers	Coil Winders, Tapers, and Finishers
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
<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>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

Upholsterers	Coil Winders, Tapers, and Finishers
<p>Core Tasks</p> <p>Generalized Work Activities:</p> <ul style="list-style-type: none"> • 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. • Drafting, Laying Out, and Specifying Technical Devices, Parts, and Equipment - Providing documentation, detailed instructions, drawings, or specifications to 	<p>Core Tasks</p> <p>Generalized Work Activities:</p> <ul style="list-style-type: none"> • 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. • Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.



ten others about how devices, parts, equipment, or structures are to be fabricated, constructed, assembled, modified, maintained, or used.

- Thinking Creatively - Developing, designing, or creating new applications, ideas, relationships, systems, or products, including artistic contributions.
- Estimating the Quantifiable Characteristics of Products, Events, or Information - Estimating sizes, distances, and quantities; or determining time, costs, resources, or materials needed to perform a work activity.
- 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.

Specific Tasks

Occupation Specific Tasks:

- Adjust or replace webbing, padding, and/or springs, and secure them in place.
- Attach bindings or apply solutions to edges of cut material to prevent raveling.
- Attach fasteners, grommets, buttons, buckles, ornamental trim, and other accessories to covers or frames, using hand tools.
- Build furniture up with loose fiber stuffing, cotton, felt, and/or foam padding to form smooth rounded surfaces.
- Collaborate with interior designers to decorate rooms and coordinate furnishing fabrics.
- Design upholstery cover patterns and cutting plans, based on sketches, customer descriptions, or blueprints.
- Discuss upholstery fabrics, colors, and styles with customers, and provide cost estimates.
- Draw cutting lines on material following patterns, templates, sketches, or blueprints, using chalk, pencils, paint, or other methods.
- Examine furniture frames, upholstery, springs, and webbing to locate defects.
- Fit, install, and secure material on frames, using hand tools, power tools, glue, cement, and/or staples.
- Interweave and fasten strips of webbing to the backs and undersides of furniture, using small hand tools and fasteners.
- Maintain records of time required to perform each job.
- Make, repair, and/or replace automobile upholstery and convertible and vinyl tops, using knowledge of fabric and upholstery methods.
- Make, restore, and/or create custom upholstered furniture, using hand tools and knowledge of fabrics and upholstery methods.
- Measure and cut new covering materials

- Training and Teaching Others - Identifying the educational needs of others, developing formal educational or training programs or classes, and teaching or instructing others.
- 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:

- Apply solutions or paints to wired electrical components, using hand tools; and bake components.
- Attach, alter, and trim materials such as wire, insulation, and coils, using hand tools.
- Cut, strip, and bend wire leads at ends of coils, using pliers and wire scrapers.
- Disassemble and assemble motors, and repair and maintain electrical components and machinery parts, using hand tools.
- Examine and test wired electrical components such as motors, armatures, and stators, using measuring devices; and record test results.
- Line slots with sheet insulation, and insert coils into slots.
- Operate or tend wire-coiling machines to wind wire coils used in electrical components such as resistors and transformers, and in electrical equipment and instruments such as bobbins and generators.
- Record production and operational data on specified forms.
- Review work orders and specifications to determine materials needed and types of parts to be processed.
- Select and load materials such as workpieces, objects, and machine parts onto equipment used in coiling processes.
- Stop machines to remove completed components, using hand tools.

Detailed Tasks

Detailed Work Activities:

- examine products or work to verify conformance to specifications
- load or unload material or workpiece into machinery
- maintain or repair industrial or related equipment/machinery
- maintain production or work records
- monitor production machinery/equipment operation to detect problems
- monitor the quantity of assembly output
- operate coil winding machines
- perform repetitive tasks in assembly setting
- read blueprints



- measure and cut new covering materials, using patterns and measuring and cutting instruments, following sketches and design specifications.
- Operate sewing machines or sew upholstery by hand to seam cushions and join various sections of covering material.
- Pick up and deliver furniture.
- Read work orders, and apply knowledge and experience with materials in order to determine types and amounts of materials required to cover workpieces.
- Remove covering, webbing, padding, and/or defective springs from workpieces, using hand tools such as hammers and tack pullers.
- Repair furniture frames and refinish exposed wood.
- Sew rips or tears in material, or create tufting, using needles and thread.
- Stretch webbing and fabric, using webbing stretchers.

Detailed Tasks

Detailed Work Activities:

- apply adhesives, caulking, sealants, or coatings
- apply protective coating to products
- construct, erect, or repair wooden frameworks or structures
- cut or trim fabric or leather
- cut, shape, fit, or join wood or other construction materials
- distinguish colors
- estimate materials or labor requirements
- examine products or work to verify conformance to specifications
- fabricate, assemble, or disassemble manufactured products by hand
- finish or refinish floor, furniture, or related wood surfaces
- inspect products or materials for damage, defects, or shortages
- maintain production or work records
- make independent judgment in assembly procedures
- measure and mark reference points or cutting lines on workpieces
- measure, weigh, or count products or materials
- move or fit heavy objects
- operate sewing machine
- prepare building surfaces for paint, finishes, wallpaper, or adhesives
- read work order, instructions, formulas, or processing charts
- recognize characteristics of cloth or fabric
- repair tears or defects in fabrics, garments, or leather products

- read technical drawings
- read work order, instructions, formulas, or processing charts
- repair or replace electrical wiring, circuits, fixtures, or equipment
- solder electrical or electronic connections or components
- solder metal parts or components together
- test manufactured products or materials
- understand service or repair manuals
- understand technical operating, service or repair manuals
- use electronic calibration devices
- use hand or power tools
- use oscilloscopes in electronics repair
- use precision tools in electronics repair
- use soldering equipment
- use voltmeter, ammeter, or ohmmeter



- sew by hand
- spread fabric or clothing article on worktable or ironing board
- use creativity to art or design work
- use hand or power tools
- use portable electric fabric cutter

Labor Market Comparison

Maine Department of Labor.

Description	Upholsterers	Coil Winders, Tapers, and Finishers	Difference
Median Wage	\$ 27,230	\$ 31,910	\$ 4,680
10th Percentile Wage	\$ 21,470	\$ 18,350	\$(3,120)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 33,780	\$ 34,740	\$ 960
90th Percentile Wage	\$ 52,470	\$ 36,440	\$(16,030)
Mean Wage	\$ 31,100	\$ 29,130	\$(1,970)
Total Employment - 2586	70	90	20
Employment Base - 2006	208	77	-131
Projected Employment - 2595	196	36	-160
Projected Job Growth - 2006-2595	-5.8 %	-53.2 %	-47.5 %
Projected Annual Openings - 2006-2595	3	1	-2
Special			

Special Occupations:

National Job Posting Trends

Trend for Upholsterers and Coil Winders, Tapers, and Finishers



Programs

Related Programs

Industrial Electronics Installer and Repairer

Industrial Electronics Technology/Technician. A program that prepares individuals to apply technical knowledge and skills to assemble, install, operate, maintain, and repair electrical/electronic equipment used in industry and manufacturing. Includes instruction in installing, maintaining and testing various types of equipment.

No information on schools for the program

Maine Statewide Promotion Opportunities for Upholsterers

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings	Special
51-6093.00	Upholsterers	100	3	70	\$27,230.00	\$0.00	-6%	3	
51-7011.00	Cabinetmakers and Bench Carpenters	83	3	660	\$29,800.00	\$2,570.00	-31%	27	
51-2021.00	Coil Winders, Tapers, and Finishers	83	2	90	\$31,910.00	\$4,680.00	-53%	1	
51-9022.00	Grinding and Polishing Workers, Hand	83	1	270	\$31,060.00	\$3,830.00	4%	5	



43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators	80	2	970	\$41,950.00	\$14,720.00	-12%	10
51-4121.07	Solderers and Brazers	80	2	1,610	\$38,030.00	\$10,800.00	7%	49
51-4121.06	Welders, Cutters, and Welder Fitters	80	2	1,610	\$38,030.00	\$10,800.00	7%	49
51-3021.00	Butchers and Meat Cutters	79	2	430	\$31,310.00	\$4,080.00	5%	16
51-4192.00	Lay-Out Workers, Metal and Plastic	79	2	180	\$43,870.00	\$16,640.00	-24%	3
51-6092.00	Fabric and Apparel Patternmakers	79	2	20	\$29,670.00	\$2,440.00	-6%	0
47-2051.00	Cement Masons and Concrete Finishers	78	3	640	\$29,060.00	\$1,830.00	7%	25
47-2141.00	Painters, Construction and Maintenance	78	4	1,750	\$33,730.00	\$6,500.00	2%	59
51-4122.00	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	78	2	120	\$36,960.00	\$9,730.00	2%	3
51-2031.00	Engine and Other Machine Assemblers	78	3	20	\$29,010.00	\$1,780.00	-45%	1
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	78	2	260	\$28,330.00	\$1,100.00	-7%	5

Special Occupations:

Top Industries for Coil Winders, Tapers, and Finishers

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Electrical equipment manufacturing	335300	33.68%	7,692	5,229	-32.03%



Semiconductor and other electronic component manufacturing	334400	22.01%	5,025	3,514	-30.07%
Nonferrous metal (except aluminum) production and processing	331400	6.62%	1,512	846	-44.04%
Other electrical equipment and component manufacturing	335900	5.64%	1,289	955	-25.87%
Motor vehicle parts manufacturing	336300	4.97%	1,136	723	-36.31%
Navigational, measuring, electromedical, and control instruments manufacturing	334500	4.51%	1,030	789	-23.41%
Spring and wire product manufacturing	332600	2.32%	529	313	-40.78%
Commercial and industrial machinery and equipment (except automotive and electronic) repair and maintenance	811300	2.16%	494	418	-15.34%
Employment services	561300	2.08%	475	481	1.25%
Alumina and aluminum production and processing	331300	1.53%	348	194	-44.32%
Communications equipment manufacturing	334200	1.34%	306	247	-19.36%
Household appliance manufacturing	335200	1.16%	265	161	-39.46%
Electric lighting equipment manufacturing	335100	1.00%	227	136	-40.21%
Steel product manufacturing from purchased steel	331200	0.72%	164	116	-29.20%
Engine, turbine, and power transmission equipment manufacturing	333600	0.35%	80	54	-32.85%

Top Industries for Upholsterers

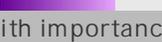
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Self-employed workers, secondary job	000602	2.05%	1,123	1,138	1.40%
Motor vehicle parts manufacturing	336300	1.91%	1,046	758	-27.56%
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Textile furnishings mills	314100	0.48%	260	215	-17.56%
Other textile product mills	314900	0.42%	232	189	-18.26%

TORQ Analysis of Upholsterers to Shoe and Leather Workers and Repairers

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Upholsterers	51-6093.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Shoe and Leather Workers and Repairers	51-6041.00	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	 91	Level	 73	Level	 84						
Gaps To Narrow if Possible		Upgrade These Skills		Knowledge to Add							
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
No Critical Gaps Recorded!				No Skills Upgrade Required!				No Knowledge Upgrades Required!			
LEVEL and IMPT (IMPORTANCE) refer to the Target Shoe and Leather Workers and Repairers. GAP refers to level difference between Upholsterers and Shoe and Leather Workers and Repairers.											

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Upholsterers	Shoe and Leather Workers and Repairers	Importance
Manual Dexterity	53 	42 	56 
Finger Dexterity	57 	42 	56 
Near Vision	51 	46 	56 
Arm-Hand Steadiness	59 	53 	53 
Control Precision	50 	35 	50 
Multilimb Coordination	51 	32 	50 
Skill Level Comparison - Abilities with importance scores over 69			
Description	Upholsterers	Shoe and Leather Workers and Repairers	Importance
Knowledge Level Comparison - Knowledge with importance scores over 69			
Description	Upholsterers	Shoe and Leather Workers and Repairers	Importance

Experience & Education Comparison

Related Work Experience Comparison				Required Education Level Comparison		
Description	Upholsterers	Shoe and Leather Workers and Repairers		Description	Upholsterers	Shoe and Leather Workers and Repairers
10+ years	4%	0%	0%	Doctoral	0%	1%
8-10 years	0%	0%	0%	Professional Degree	0%	0%
6-8 years	0%	0%	0%	Post-Masters Cert	0%	0%
4-6 years	10%	8%	8%	Master's Degree	0%	0%
2-4 years	0%	3%	3%	Post-Bachelor Cert	0%	0%
1-2 years	12%	15%	15%	Bachelors	0%	0%
6-12 months	19%	4%	4%	AA or Equiv	5%	2%
3-6 months	1%	10%	10%	Some College	3%	21%
1-3 months	0%	11%	11%	Post-Secondary Certificate	25%	0%
0-1 month	10%	2%	2%	High School Diploma or GED	55%	56%
None	41%	43%	43%	No HSD or GED	9%	17%

Upholsterers

Shoe and Leather Workers and Repairers

Most Common Educational/Training Requirement:

Long-term on-the-job training

Long-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

Upholsterers

Shoe and Leather Workers and Repairers

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.
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Drafting, Laying Out, and Specifying Technical Devices, Parts, and Equipment - Providing documentation, detailed instructions, drawings, or specifications to

- 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).
- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors



tell others about how devices, parts, equipment, or structures are to be fabricated, constructed, assembled, modified, maintained, or used.

- Thinking Creatively - Developing, designing, or creating new applications, ideas, relationships, systems, or products, including artistic contributions.
- Estimating the Quantifiable Characteristics of Products, Events, or Information - Estimating sizes, distances, and quantities; or determining time, costs, resources, or materials needed to perform a work activity.
- 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.

Specific Tasks

Occupation Specific Tasks:

- Adjust or replace webbing, padding, and/or springs, and secure them in place.
- Attach bindings or apply solutions to edges of cut material to prevent raveling.
- Attach fasteners, grommets, buttons, buckles, ornamental trim, and other accessories to covers or frames, using hand tools.
- Build furniture up with loose fiber stuffing, cotton, felt, and/or foam padding to form smooth rounded surfaces.
- Collaborate with interior designers to decorate rooms and coordinate furnishing fabrics.
- Design upholstery cover patterns and cutting plans, based on sketches, customer descriptions, or blueprints.
- Discuss upholstery fabrics, colors, and styles with customers, and provide cost estimates.
- Draw cutting lines on material following patterns, templates, sketches, or blueprints, using chalk, pencils, paint, or other methods.
- Examine furniture frames, upholstery, springs, and webbing to locate defects.
- Fit, install, and secure material on frames, using hand tools, power tools, glue, cement, and/or staples.
- Interweave and fasten strips of webbing to the backs and undersides of furniture, using small hand tools and fasteners.
- Maintain records of time required to perform each job.
- Make, repair, and/or replace automobile upholstery and convertible and vinyl tops, using knowledge of fabric and upholstery methods.
- Make, restore, and/or create custom upholstered furniture, using hand tools and knowledge of fabrics and upholstery methods.

or other problems or defects.

- 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.
- 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:

- Align and stitch or glue materials such as fabric, fleece, leather, or wood, in order to join parts.
- Attach accessories or ornamentation to decorate or protect products.
- Attach insoles to shoe lasts, affix shoe uppers, and apply heels and outsoles.
- Cement, nail, or sew soles and heels to shoes.
- Check the texture, color, and strength of leather to ensure that it is adequate for a particular purpose.
- Clean and polish shoes.
- Construct, decorate, or repair leather products according to specifications, using sewing machines, needles and thread, leather lacing, glue, clamps, hand tools, and/or rivets.
- Cut out parts following patterns or outlines, using knives, shears, scissors, or machine presses.
- Cut, insert, position, and secure paddings, cushioning, and/or linings, using stitches or glue.
- Draw patterns, using measurements, designs, plaster casts, or customer specifications, and position or outline patterns on work pieces.
- Dress and otherwise finish boots or shoes, as by trimming the edges of new soles and heels to the shoe shape.
- Drill or punch holes; then insert or attach metal rings, handles, and fastening hardware such as buckles.
- Dye, soak, polish, paint, stamp, stitch, stain, buff, or engrave leather or other materials to obtain desired effects, decorations, or shapes.
- Estimate the costs of requested products or services such as custom footwear or footwear repair, and receive payment from customers.
- Inspect articles for defects, and remove damaged or worn parts, using hand tools.
- Make, modify, and repair orthopedic or therapeutic footwear according to doctors' prescriptions, or modify existing footwear



- Measure and cut new covering materials, using patterns and measuring and cutting instruments, following sketches and design specifications.
- Operate sewing machines or sew upholstery by hand to seam cushions and join various sections of covering material.
- Pick up and deliver furniture.
- Read work orders, and apply knowledge and experience with materials in order to determine types and amounts of materials required to cover workpieces.
- Remove covering, webbing, padding, and/or defective springs from workpieces, using hand tools such as hammers and tack pullers.
- Repair furniture frames and refinish exposed wood.
- Sew rips or tears in material, or create tufting, using needles and thread.
- Stretch webbing and fabric, using webbing stretchers.

Detailed Tasks

Detailed Work Activities:

- apply adhesives, caulking, sealants, or coatings
- apply protective coating to products
- construct, erect, or repair wooden frameworks or structures
- cut or trim fabric or leather
- cut, shape, fit, or join wood or other construction materials
- distinguish colors
- estimate materials or labor requirements
- examine products or work to verify conformance to specifications
- fabricate, assemble, or disassemble manufactured products by hand
- finish or refinish floor, furniture, or related wood surfaces
- inspect products or materials for damage, defects, or shortages
- maintain production or work records
- make independent judgment in assembly procedures
- measure and mark reference points or cutting lines on workpieces
- measure, weigh, or count products or materials
- move or fit heavy objects
- operate sewing machine
- prepare building surfaces for paint, finishes, wallpaper, or adhesives
- read work order, instructions, formulas, or processing charts
- recognize characteristics of cloth or fabric
- repair tears or defects in fabrics, garments, or leather products

prescriptions, or reading existing patterns for people with foot problems and special needs.

- Measure customers for fit, and discuss with them the type of footwear to be made, recommending details such as leather quality.
- Nail heel and toe cleats onto shoes.
- Place shoes on lasts to remove soles and heels, using knives and/or pliers.
- Prepare inserts, heel pads, and lifts from casts of customers' feet.
- Re-sew seams, and replace handles and linings of suitcases or handbags.
- Read prescriptions or specifications, and take measurements to establish the type of product to be made, using calipers, tape measures, or rules.
- Repair and recondition leather products such as trunks, luggage, shoes, saddles, belts, purses, and baseball gloves.
- Repair or replace soles, heels, and other parts of footwear, using sewing, buffing and other shoe repair machines, materials, and equipment.
- Select materials and patterns, and trace patterns onto materials to be cut out.
- Shape shoe heels with a knife, and sand them on a buffing wheel for smoothness.
- Stretch shoes, first dampening parts; then inserting and twisting parts, using an adjustable stretcher.

Detailed Tasks

Detailed Work Activities:

- apply adhesives, caulking, sealants, or coatings
- calculate dimensions or specifications of fabric or leather pattern
- cut or trim fabric or leather
- draw master pattern for fabric or leather goods
- dye fabric or leather articles
- engrave variety of materials and products
- examine products or work to verify conformance to specifications
- fabricate, assemble, or disassemble manufactured products by hand
- measure and mark reference points or cutting lines on workpieces
- measure, weigh, or count products or materials
- operate sewing machine
- read specifications
- read tape measure
- read work order, instructions, formulas, or processing charts
- repair tears or defects in fabrics, garments, or leather products
- sew by hand



- sew by hand
- spread fabric or clothing article on worktable or ironing board
- use creativity to art or design work
- use hand or power tools
- use portable electric fabric cutter

- understand technical operating, service or repair manuals
- use hand or power tools
- use leather fabrication or repair equipment
- use portable electric fabric cutter
- use shoe repair materials

Labor Market Comparison

Maine Department of Labor.

Description	Upholsterers	Shoe and Leather Workers and Repairers	Difference
Median Wage	\$ 27,230	\$ 25,030	\$(2,200)
10th Percentile Wage	\$ 21,470	\$ 18,110	\$(3,360)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 33,780	\$ 29,300	\$(4,480)
90th Percentile Wage	\$ 52,470	\$ 35,580	\$(16,890)
Mean Wage	\$ 31,100	\$ 25,870	\$(5,230)
Total Employment - 2586	70	90	20
Employment Base - 2006	208	151	-57
Projected Employment - 2595	196	122	-74
Projected Job Growth - 2006-2595	-5.8 %	-19.2 %	-13.4 %
Projected Annual Openings - 2006-2595	3	3	0
Special			

Special Occupations:

National Job Posting Trends

Trend for Upholsterers and Shoe and Leather Workers and Repairers



Programs	
Related Programs	
Leatherworkers and Upholsterers, Other	
Leatherworking and Upholstery, Other. Any instructional program in leatherworking and upholstering not listed above.	
No information on schools for the program	
Shoe, Boot and Leather Repairer	
Shoe, Boot and Leather Repair. A program that prepares individuals to apply technical knowledge and skills to repair all types of footwear, including replacement and mending of worn parts; repairing orthopedic footwear, refinishing and dyeing leather; and repairing other leather goods such as handbags, belts, and luggage.	
No information on schools for the program	

Maine Statewide Promotion Opportunities for Upholsterers									
O* NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings	Special
51-6093.00	Upholsterers	100	3	70	\$27,230.00	\$0.00	-6%	3	
51-7011.00	Cabinetmakers and Bench Carpenters	83	3	660	\$29,800.00	\$2,570.00	-31%	27	
51-2021.00	Coil Winders, Tapers, and Finishers	83	2	90	\$31,910.00	\$4,680.00	-53%	1	
51-9022.00	Grinding and Polishing Workers, Hand	83	1	270	\$31,060.00	\$3,830.00	4%	5	

43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators	80	2	970	\$41,950.00	\$14,720.00	-12%	10
51-4121.07	Solderers and Brazers	80	2	1,610	\$38,030.00	\$10,800.00	7%	49
51-4121.06	Welders, Cutters, and Welder Fitters	80	2	1,610	\$38,030.00	\$10,800.00	7%	49
51-3021.00	Butchers and Meat Cutters	79	2	430	\$31,310.00	\$4,080.00	5%	16
51-4192.00	Lay-Out Workers, Metal and Plastic	79	2	180	\$43,870.00	\$16,640.00	-24%	3
51-6092.00	Fabric and Apparel Patternmakers	79	2	20	\$29,670.00	\$2,440.00	-6%	0
47-2051.00	Cement Masons and Concrete Finishers	78	3	640	\$29,060.00	\$1,830.00	7%	25
47-2141.00	Painters, Construction and Maintenance	78	4	1,750	\$33,730.00	\$6,500.00	2%	59
51-4122.00	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	78	2	120	\$36,960.00	\$9,730.00	2%	3
51-2031.00	Engine and Other Machine Assemblers	78	3	20	\$29,010.00	\$1,780.00	-45%	1
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	78	2	260	\$28,330.00	\$1,100.00	-7%	5

Special Occupations:

Top Industries for Shoe and Leather Workers and Repairers

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Self-employed workers, primary job	000601	49.81%	7,758	8,265	6.54%

Footwear manufacturing	316200	12.71%	1,980	927	-53.16%
Personal and household goods repair and maintenance	811400	12.44%	1,937	1,798	-7.19%
Self-employed workers, secondary job	000602	2.57%	401	399	-0.45%
Shoe stores	448200	2.48%	386	322	-16.58%
Apparel accessories and other apparel manufacturing	315900	0.90%	140	98	-30.10%
Clothing stores	448100	0.61%	95	99	4.97%

Top Industries for Upholsterers

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Household and institutional furniture manufacturing	337120	36.03%	19,747	16,491	-16.48%
Self-employed workers, primary job	000601	23.47%	12,864	12,471	-3.06%
Personal and household goods repair and maintenance	811400	14.93%	8,184	7,599	-7.15%
Automotive body, paint, interior, and glass repair	811120	5.56%	3,045	3,235	6.24%
Self-employed workers, secondary job	000602	2.05%	1,123	1,138	1.40%
Motor vehicle parts manufacturing	336300	1.91%	1,046	758	-27.56%
Unpaid family workers, primary job	000701	1.73%	948	683	-28.01%
Other furniture related product manufacturing	337900	1.66%	910	865	-5.00%
Furniture stores	442100	1.61%	883	820	-7.16%
Support activities for air transportation	488100	1.13%	622	684	9.92%
Ship and boat building	336600	1.10%	603	615	1.85%
Aerospace product and parts manufacturing	336400	1.00%	549	508	-7.33%
Furniture and home furnishing merchant wholesalers	423200	0.59%	321	320	-0.13%
Textile furnishings mills	314100	0.48%	260	215	-17.56%
Other textile product mills	314900	0.42%	232	189	-18.26%

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)