



TORO Analysis of Hoist and Winch Operators to Paper Goods Machine Setters, Operators, and Tenders

INPUT SECTION:

Transfer	Title	O*NET	Filters		
From Title:	Hoist and Winch Operators	53-7041.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Paper Goods Machine Setters, Operators, and Tenders	51-9196.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

OUTPUT SECTION:

Grand TORQ:

84

Ability TORQ		Skills TORQ		Knowledge TORQ	
Level	88	Level	86	Level	79

Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Near Vision	48	9	56	Operation Monitoring	62	8	78	Production and Processing	55	21	76
Arm-Hand Steadiness	42	5	59	Quality Control Analysis	50	7	70	English Language	40	14	71
Selective Attention	44	5	56	Learning Strategies	64	6	69				
Auditory Attention	46	5	50								
Finger Dexterity	42	3	53								
Deductive Reasoning	37	3	50								
Manual Dexterity	41	2	53								
Information Ordering	42	1	53								
Oral Expression	42	1	50								

LEVEL and IMPT (IMPORTANCE) refer to the Target Paper Goods Machine Setters, Operators, and Tenders. GAP refers to level difference between Hoist and Winch Operators and Paper Goods Machine Setters, Operators, and Tenders.

ASK ANALYSIS

Ability Level Comparison - Abilities with importance scores over 50

Description	Hoist and Winch Operators	Paper Goods Machine Setters, Operators, and Tenders	Importance
Problem Sensitivity	41	39	59
Arm-Hand Steadiness	37	42	59



Selective Attention	39	44	56
Control Precision	55	48	56
Near Vision	39	48	56
Oral Comprehension	51	44	53
Information Ordering	41	42	53
Manual Dexterity	39	41	53
Finger Dexterity	39	42	53
Oral Expression	41	42	50
Deductive Reasoning	34	37	50
Auditory Attention	41	46	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Hoist and Winch Operators	Paper Goods Machine Setters, Operators, and Tenders	Importance
Operation Monitoring	54	62	78
Operation and Control	73	60	75
Critical Thinking	64	60	74
Equipment Maintenance	70	58	74
Time Management	61	48	71
Quality Control Analysis	43	50	70
Reading Comprehension	56	54	69
Learning Strategies	58	64	69

Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Hoist and Winch Operators	Paper Goods Machine Setters, Operators, and Tenders	Importance
Production and Processing	34	55	76
English Language	26	40	71

Experience & Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Hoist and Winch Operators	Paper Goods Machine Setters, Operators, and Tenders	Description	Hoist and Winch Operators	Paper Goods Machine Setters, Operators, and Tenders
10+ years	2%	0%	Doctoral	0%	0%
8-10 years	0%	3%	Professional Degree	0%	0%
6-8 years	0%	0%	Post-Masters Cert	0%	0%
4-6 years	21%	0%	Master's Degree	0%	0%
2-4 years	21%	0%	Post-Bachelor Cert	0%	0%
			Bachelors	0%	0%



1-2 years	29%	41%	AA or Equiv	0%	0%
6-12 months	9%	1%	Some College	8%	0%
3-6 months	1%	5%	Post-Secondary Certificate	23%	0%
1-3 months	1%	16%	High School Diploma or GED	41%	74%
0-1 month	0%	3%	No HSD or GED	26%	24%
None	12%	27%			

Hoist and Winch Operators	Paper Goods Machine Setters, Operators, and Tenders
Most Common Educational/Training Requirement:	
Moderate-term on-the-job training	Moderate-term on-the-job training
Job Zone Comparison	
<p>2 - Job Zone Two: Some Preparation Needed</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>	<p>2 - Job Zone Two: Some Preparation Needed</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	
Hoist and Winch Operators	Paper Goods Machine Setters, Operators, and Tenders
Core Tasks	Core Tasks
<p>Generalized Work Activities:</p> <ul style="list-style-type: none"> • 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. • 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. • Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft. • Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles). 	<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). • Monitor Processes, Materials, or Surroundings - Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems. • Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources. • Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects. • Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
Specific Tasks	Specific Tasks
Occupation Specific Tasks:	Occupation Specific Tasks:



Occupation Specific Tasks:

- Apply hand or foot brakes and move levers to lock hoists or winches.
- Attach, fasten, and disconnect cables or lines to loads, materials, and equipment, using hand tools.
- Climb ladders in order to position and setup vehicle-mounted derricks.
- Move levers, pedals, and throttles in order to stop, start, and regulate speeds of hoist or winch drums in response to hand, bell, buzzer, telephone, loud-speaker, or whistle signals, or by observing dial indicators or cable marks.
- Move or reposition hoists, winches, loads and materials, manually or using equipment and machines such as trucks, cars, and hand trucks.
- Observe equipment gauges and indicators and hand signals of other workers in order to verify load positions and/or depths.
- Oil winch drums so that cables will wind smoothly.
- Operate compressed air, diesel, electric, gasoline, or steam-driven hoists or winches in order to control movement of cableways, cages, derricks, draglines, loaders, railcars, or skips.
- Repair, maintain, and adjust equipment, using hand tools.
- Select loads or materials according to weight and size specifications.
- Signal and assist other workers loading or unloading materials.
- Start engines of hoists or winches and use levers and pedals to wind or unwind cable on drums.
- Tend auxiliary equipment such as jacks, slings, cables, or stop blocks, in order to facilitate moving items or materials for further processing.

Detailed Tasks

Detailed Work Activities:

- inspect material moving equipment
- load, unload, or stack containers, materials, or products
- maintain or repair construction machinery or equipment
- operate cargo handling gear
- operate hoist, winch, or hydraulic boom
- operate material moving, loading, or unloading equipment
- perform safety inspections in construction or resource extraction setting
- set up specialized rigging
- use hand or power tools
- use measuring devices in construction or extraction work

- Adjust guide assemblies, forming bars, and folding mechanisms according to specifications, using hand tools.
- Cut products to specified dimensions, using hand or power cutters.
- Disassemble machines to maintain, repair, or replace broken or worn parts, using hand or power tools.
- Examine completed work to detect defects and verify conformance to work orders, and adjust machinery as necessary to correct production problems.
- Fill glue and paraffin reservoirs, and position rollers to dispense glue onto paperboard.
- Install attachments to machines for gluing, folding, printing, or cutting.
- Lift tote boxes of finished cartons, and dump cartons into feed hoppers.
- Load automatic stapling mechanisms.
- Measure, space, and set saw blades, cutters, and perforators, according to product specifications.
- Monitor finished cartons as they drop from forming machines into rotating hoppers and then into gravity feed chutes, in order to prevent jamming.
- Observe operation of various machines to detect and correct machine malfunctions such as improper forming, glue flow, or pasteboard tension.
- Place rolls of paper or cardboard on machine feedtracks, and thread paper through gluing, coating, and slitting rollers.
- Remove finished cores, and stack or place them on conveyors for transfer to other work areas.
- Stamp products with information such as dates, using hand stamps or automatic stamping devices.
- Start machines and move controls to regulate tension on pressure rolls, to synchronize speed of machine components, and to adjust temperatures of glue or paraffin.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- examine products or work to verify conformance to specifications
- install equipment or attachments on machinery or related structures
- load or unload material or workpiece into machinery
- load, unload, or stack containers, materials, or products
- maintain consistent production quality
- maintain or repair industrial or related equipment/machinery



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

Labor Market Comparison

Description	Hoist and Winch Operators	Paper Goods Machine Setters, Operators, and Tenders	Difference
Median Wage	N/A	\$ 38,230	N/A
10th Percentile Wage	N/A	\$ 25,850	N/A
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	N/A	\$ 45,200	N/A
90th Percentile Wage	N/A	\$ 51,680	N/A
Mean Wage	N/A	\$ 38,330	N/A
Total Employment - 2007	N/A	910	N/A
Employment Base - 2016	N/A	951	N/A
Projected Employment - 2016	N/A	700	N/A
Projected Job Growth - 2006-2016	N/A	-26.4 %	N/A
Projected Annual Openings - 2006-2016	N/A	23	N/A

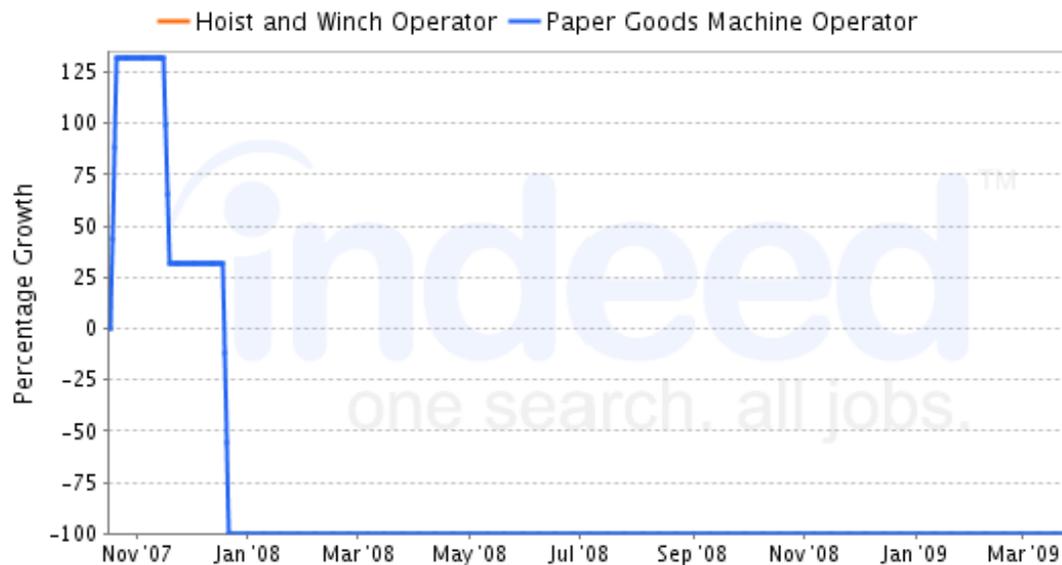
National Job Posting Trends

Trend for Hoist and Winch Operators

Trend for Paper Goods Machine Setters, Operators, and Tenders



Job Trends from Indeed.com



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

Recommended Programs

No program data for the occupation.

Maine Statewide Promotion Opportunities for Hoist and Winch Operators

O* NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
53-7081.00	Refuse and Recyclable Material Collectors	85	2	930	\$22,780.00	\$22,780.00	1%	37
47-2071.00	Paving, Surfacing, and Tamping Equipment Operators	84	2	320	\$25,520.00	\$25,520.00	1%	7
51-7041.00	Sawing Machine Setters, Operators, and Tenders, Wood	84	2	700	\$24,790.00	\$24,790.00	-8%	15
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	84	2	910	\$38,230.00	\$38,230.00	-26%	23
51-4121.06	Welders, Cutters, and Welder Fitters	83	2	1,610	\$38,030.00	\$38,030.00	7%	49
51-9191.00	Cementing and Gluing Machine Operators and Tenders	83	1	80	\$27,620.00	\$27,620.00	-15%	2
47-5021.00	Earth Drillers, Except Oil and Gas	83	3	140	\$37,470.00	\$37,470.00	2%	4



53-7021.00	Crane and Tower Operators	83	3	240	\$41,940.00	\$41,940.00	-2%	4
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	82	2	260	\$28,330.00	\$28,330.00	-7%	5
37-3011.00	Landscaping and Groundskeeping Workers	82	1	4,040	\$24,450.00	\$24,450.00	12%	130
43-5041.00	Meter Readers, Utilities	82	1	90	\$31,240.00	\$31,240.00	-11%	3
51-7042.00	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	82	2	900	\$23,040.00	\$23,040.00	-12%	23
53-7032.00	Excavating and Loading Machine and Dragline Operators	82	2	330	\$32,160.00	\$32,160.00	6%	8
47-4071.00	Septic Tank Servicers and Sewer Pipe Cleaners	81	2	160	\$30,300.00	\$30,300.00	2%	4
51-2031.00	Engine and Other Machine Assemblers	81	3	20	\$29,010.00	\$29,010.00	-45%	1

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

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Converted paper product manufacturing	322200	60.48%	68,412	57,411	-16.08%
Pulp, paper, and paperboard mills	322100	21.93%	24,800	17,202	-30.64%
Printing and related support activities	323100	8.22%	9,293	7,363	-20.77%
Newspaper publishers	511110	1.36%	1,536	1,316	-14.33%
Plastics product manufacturing	326100	1.27%	1,439	1,525	6.00%
Wholesale electronic markets and agents and brokers	425100	0.67%	762	865	13.48%
Employment services	561300	0.55%	618	783	26.56%
Animal slaughtering and processing	311600	0.46%	521	595	14.13%
Advertising and related services	541800	0.40%	448	505	12.83%
Paper and paper product merchant wholesalers	424100	0.39%	440	470	6.83%
Other general purpose machinery manufacturing	333900	0.19%	219	198	-9.73%



Miscellaneous durable goods merchant wholesalers	423900	0.09%	100	114	14.81%
Warehousing and storage	493100	0.07%	76	101	33.58%
Other electrical equipment and component manufacturing	335900	0.06%	69	64	-7.34%
Fruit and vegetable preserving and specialty food manufacturing	311400	0.05%	61	55	-9.33%

Top Industries for Hoist and Winch Operators

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Support activities for water transportation	488300	9.78%	295	342	15.75%
Logging	113310	8.08%	244	201	-17.33%
Electric power generation, transmission and distribution	221100	6.64%	200	184	-8.03%
Support activities for road transportation	488400	6.46%	195	214	9.96%
Cement and concrete product manufacturing	327300	4.04%	122	132	8.55%
Sawmills and wood preservation	321100	3.60%	109	87	-19.82%
Support activities for mining	213100	2.85%	86	81	-5.93%
Nonmetallic mineral mining and quarrying	212300	2.04%	62	66	7.34%
Local government, excluding education and hospitals	939300	2.03%	61	69	12.33%