



TORQ Analysis of Industrial Truck and Tractor Operators to Refuse and Recyclable Material Collectors

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Industrial Truck and Tractor Operators	53-7051.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Refuse and Recyclable Material Collectors	53-7081.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

TORQ RESULTS											
Grand TORQ:					88						
Ability TORQ		Skills TORQ		Knowledge TORQ							
Level	92	Level	90	Level	81						
Gaps To Narrow if Possible			Upgrade These Skills		Knowledge to Add						
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Speech Recognition	39	2	56	No Skills Upgrade Required!		No Knowledge Upgrades Required!					
LEVEL and IMPT (IMPORTANCE) refer to the Target Refuse and Recyclable Material Collectors. GAP refers to level difference between Industrial Truck and Tractor Operators and Refuse and Recyclable Material Collectors.											

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Industrial Truck and Tractor Operators	Refuse and Recyclable Material Collectors	Importance
Multilimb Coordination	57	44	62
Control Precision	55	50	59
Near Vision	41	35	59
Oral Comprehension	53	44	56
Oral Expression	46	39	56
Problem Sensitivity	42	32	56
Depth Perception	55	39	56
Speech Recognition	37	39	56
Arm-Hand Steadiness	41	34	53
Manual Dexterity	44	39	53
Static Strength	71	44	53
Written Comprehension	42	30	50
Deductive Reasoning	41	34	50
Inductive Reasoning	37	34	50



Information Ordering	44		35		50	
Selective Attention	46		34		50	
Reaction Time	57		37		50	
Far Vision	46		34		50	
Speech Clarity	41		39		50	

Skill Level Comparison - Abilities with importance scores over 69

Description	Industrial Truck and Tractor Operators	Refuse and Recyclable Material Collectors	Importance
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Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Industrial Truck and Tractor Operators	Refuse and Recyclable Material Collectors	Importance
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Experience & Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Industrial Truck and Tractor Operators	Refuse and Recyclable Material Collectors	Description	Industrial Truck and Tractor Operators	Refuse and Recyclable Material Collectors
10+ years	0%	0%	Doctoral	0%	0%
8-10 years	0%	0%	Professional Degree	0%	0%
6-8 years	0%	0%	Post-Masters Cert	0%	0%
4-6 years	0%	0%	Master's Degree	0%	0%
2-4 years	22%	4%	Post-Bachelor Cert	0%	0%
1-2 years	9%	15%	Bachelors	0%	0%
6-12 months	24%	14%	AA or Equiv	0%	0%
3-6 months	15%	0%	Some College	0%	0%
1-3 months	13%	20%	Post-Secondary Certificate	29%	8%
0-1 month	6%	8%	High School Diploma or GED	59%	54%
None	8%	36%	No HSD or GED	11%	37%

Industrial Truck and Tractor Operators

Refuse and Recyclable Material Collectors

Most Common Educational/Training Requirement:

Short-term on-the-job training

Short-term on-the-job training

Job Zone Comparison

2 - Job Zone Two: Some Preparation Needed
 Some previous work-related skill, knowledge, or experience may be helpful in these occupations, but usually is not needed. For example, a teller might benefit from experience working directly with the public, but an inexperienced person could still learn to be a teller with little difficulty.
 These occupations usually require a high school diploma and may require some vocational training or job-related course work. In some cases, an associate's or bachelor's degree could be needed.
 Employees in these occupations need anywhere from a few months to one year of working with experienced employees.

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Tasks



Industrial Truck and Tractor Operators

Core Tasks

Generalized Work Activities:

- Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.
- 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.
- 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.
- Identifying Objects, Actions, and Events - Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.

Specific Tasks

Occupation Specific Tasks:

- Hook tow trucks to trailer hitches and fasten attachments, such as graders, plows, rollers, and winch cables to tractors, using hitchpins.
- Manually load or unload materials onto or off pallets, skids, platforms, cars, or lifting devices.
- Move controls to drive gasoline- or electric-powered trucks, cars, or tractors and transport materials between loading, processing, and storage areas.
- Move levers and controls that operate lifting devices, such as forklifts, lift beams and swivel-hooks, hoists, and elevating platforms, to load, unload, transport, and stack material.
- Operate or tend automatic stacking, loading, packaging, or cutting machines.
- Perform routine maintenance on vehicles and auxiliary equipment, such as cleaning, lubricating, recharging batteries, fueling, or replacing liquefied-gas tank.
- Position lifting devices under, over, or around loaded pallets, skids, and boxes, and secure material or products for transport to designated areas.
- Signal workers to discharge, dump, or level materials.
- Turn valves and open chutes to dump, spray, or release materials from dump cars or storage bins into hoppers.

Refuse and Recyclable Material Collectors

Core Tasks

Generalized Work Activities:

- Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.
- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.
- Communicating with Supervisors, Peers, or Subordinates - Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.

Specific Tasks

Occupation Specific Tasks:

- Clean trucks and compactor bodies after routes have been completed.
- Communicate with dispatchers concerning delays, unsafe sites, accidents, equipment breakdowns, and other maintenance problems.
- Dismount garbage trucks to collect garbage and remount trucks to ride to the next collection point.
- Drive to disposal sites to empty trucks that have been filled.
- Drive trucks along established routes through residential streets and alleys, or through business and industrial areas.
- Fill out any needed reports for defective equipment.
- Inspect trucks prior to beginning routes to ensure safe operating condition.
- Keep informed of road and weather conditions to determine how routes will be affected.
- Operate automated or semi-automated hoisting devices that raise refuse bins and dump contents into openings in truck bodies.
- Operate equipment that compresses the collected refuse.
- Organize schedules for refuse collection.
- Provide quotes for refuse collection contracts.



- weigh materials or products, and record weight and other production data on tags or labels.

Detailed Tasks

Detailed Work Activities:

- fasten attachments or accessories to tractor
- inspect material moving equipment
- load, unload, or stack containers, materials, or products
- maintain or repair cargo or passenger vehicle
- maintain production or work records
- measure, weigh, or count products or materials
- move or fit heavy objects
- operate cargo handling gear
- operate forklift
- operate material moving, loading, or unloading equipment
- operate packaging or banding machine or equipment
- operate tractor with accessories or attachments
- perform safety inspections in manufacturing or industrial setting
- signal directions or warnings to coworkers
- use hand or power tools
- use vehicle repair tools or safety equipment
- use weighing or measuring devices in transportation

Technology - Examples

Inventory management software

- Argos Software ABECAS Insight WMS
- ATMS StockTrack PLUS
- BarControl Enterprise Manager iBEM
- IntelliTrack Warehouse Management System WMS
- Lilly Software Associates VISUAL DCMS
- Midland Information Systems inventory management software
- Motek Priya
- RedPrairie DLx Warehouse
- SAP warehouse management software

Materials requirements planning logistics and supply chain software

- Aldata G.O.L.D. software
- SSA Global Supply Chain Management

- Refuel trucks and add other necessary fluids, such as oil.
- Sort items set out for recycling and throw materials into designated truck compartments.
- Tag garbage or recycling containers to inform customers of problems such as excess garbage or inclusion of items that are not permitted.

Detailed Tasks

Detailed Work Activities:

- drive truck with capacity greater than 3 tons
- load, unload, or stack containers, materials, or products
- move or fit heavy objects
- use truck-mounted hydraulic lifts or other accessories
- use two-way radio or mobile phone

Technology - Examples



Tools - Examples

- Belt conveyors
- Bulk liquid trucks
- Container reach stackers
- Hustlers
- Industrial crane trucks
- Bridgeplates
- Dockboards
- Dollies
- Flatbed trailers
- Booms
- Cantilever trucks
- Fork-grapples
- Motorized hand trucks
- Overhead hoists
- Jacks
- Combination vacuum lifts
- High-lift order picker trucks
- Tank trailers
- Pallet trucks
- Personal computers
- Personnel and burden carriers
- Snow plows
- Swivel hooks
- Telescopic forklifts
- On-board computers for sending/receiving instructions
- Wheel chocks
- Banding equipment

Labor Market Comparison

Maine Department of Labor.

Description	Industrial Truck and Tractor Operators	Refuse and Recyclable Material Collectors	Difference
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Median Wage	\$ 26,160	\$ 22,780	\$(3,380)
10th Percentile Wage	\$ 20,690	\$ 15,690	\$(5,000)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 32,090	\$ 28,570	\$(3,520)
90th Percentile Wage	\$ 38,670	\$ 33,230	\$(5,440)
Mean Wage	\$ 27,920	\$ 23,640	\$(4,280)
Total Employment - 2651	3,210	930	-2,280
Employment Base - 2006	3,240	1,343	-1,897
Projected Employment - 2660	3,180	1,356	-1,824
Projected Job Growth - 2006-2660	-1.8 %	1.0 %	2.8 %
Projected Annual Openings - 2006-2660	82	37	-45
Special			

Special Occupations:

National Job Posting Trends

Trend for Industrial Truck and Tractor Operators and Refuse and Recyclable Material Collectors



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

Programs



No information on programs or the occupation.

Maine Statewide Promotion Opportunities for Industrial Truck and Tractor Operators

O* NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings	Special
53-7051.00	Industrial Truck and Tractor Operators	100	2	3,210	\$26,160.00	\$0.00	-2%	82	
53-3032.00	Truck Drivers, Heavy and Tractor-Trailer	85	2	9,940	\$31,140.00	\$4,980.00	3%	246	
47-4051.00	Highway Maintenance Workers	84	2	2,210	\$28,790.00	\$2,630.00	7%	60	
51-9191.00	Cementing and Gluing Machine Operators and Tenders	84	1	80	\$27,620.00	\$1,460.00	-15%	2	
47-4061.00	Rail-Track Laying and Maintenance Equipment Operators	82	1	120	\$36,960.00	\$10,800.00	8%	4	
43-5041.00	Meter Readers, Utilities	81	1	90	\$31,240.00	\$5,080.00	-11%	3	
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	81	2	260	\$28,330.00	\$2,170.00	-7%	5	
51-9121.00	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	81	2	850	\$38,860.00	\$12,700.00	-26%	19	
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	81	2	910	\$38,230.00	\$12,070.00	-26%	23	
53-4011.00	Locomotive Engineers	81	4	100	\$59,580.00	\$33,420.00	12%	4	



53-7063.00	Machine Feeders and Offbearers	81	1	480	\$26,820.00	\$660.00	-22%	9	
51-4121.06	Welders, Cutters, and Welder Fitters	80	2	1,610	\$38,030.00	\$11,870.00	7%	49	★
51-4191.00	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	80	2	40	\$32,470.00	\$6,310.00	-6%	1	
51-4031.00	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	80	2	450	\$27,500.00	\$1,340.00	-14%	11	
53-7032.00	Excavating and Loading Machine and Dragline Operators	80	2	330	\$32,160.00	\$6,000.00	6%	8	

Special Occupations:

Top Industries for Refuse and Recyclable Material Collectors

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Waste collection	562100	32.50%	44,187	50,140	13.47%
Waste treatment and disposal	562200	15.26%	20,746	23,452	13.05%
Self-employed workers, primary job	000601	5.78%	7,861	7,537	-4.12%
Remediation and other waste management services	562900	2.12%	2,885	3,434	19.02%
Miscellaneous durable goods merchant wholesalers	423900	0.99%	1,342	1,387	3.32%
General freight trucking	484100	0.91%	1,242	1,264	1.80%
Specialized freight trucking	484200	0.48%	654	662	1.37%
Private households, primary jobs	814100	0.44%	594	555	-6.41%
Self-employed workers, secondary job	000602	0.28%	382	343	-10.41%
Postal service	491100	0.14%	186	170	-8.38%
Colleges, universities, and professional schools, public and private	611300	0.11%	156	157	0.69%



Vocational rehabilitation services	624300	0.10%	135	148	9.63%
Other support services	561900	0.10%	138	170	23.30%
Management of companies and enterprises	551100	0.07%	101	105	3.75%
General medical and surgical hospitals, public and private	622100	0.06%	84	84	-0.36%

Top Industries for Industrial Truck and Tractor Operators

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Warehousing and storage	493100	12.45%	79,310	95,338	20.21%
Building material and supplies dealers	444100	8.14%	51,838	59,620	15.01%
Employment services	561300	6.01%	38,285	43,610	13.91%
Grocery and related product wholesalers	424400	4.08%	25,980	25,568	-1.59%
General freight trucking	484100	3.33%	21,218	21,599	1.80%
Motor vehicle parts manufacturing	336300	2.65%	16,903	12,111	-28.35%
Plastics product manufacturing	326100	2.44%	15,571	14,855	-4.60%
Converted paper product manufacturing	322200	2.19%	13,953	10,538	-24.47%
Lumber and other construction materials merchant wholesalers	423300	2.13%	13,579	14,037	3.37%
Fruit and vegetable preserving and specialty food manufacturing	311400	1.61%	10,255	8,368	-18.40%
Other wood product manufacturing	321900	1.53%	9,723	8,246	-15.19%
Sawmills and wood preservation	321100	1.35%	8,578	6,190	-27.84%
Couriers	492100	1.34%	8,561	8,280	-3.29%
Miscellaneous durable goods merchant wholesalers	423900	1.33%	8,504	8,786	3.32%
Beverage manufacturing	312100	1.21%	7,713	6,519	-15.48%



TORQ Analysis of Industrial Truck and Tractor Operators to Truck Drivers, Light or Delivery Services

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Industrial Truck and Tractor Operators	53-7051.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Truck Drivers, Light or Delivery Services	53-3033.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

TORQ RESULTS							
Grand TORQ:					87		
Ability TORQ		Skills TORQ		Knowledge TORQ			
Level	88	Level	85	Level	88		
Gaps To Narrow if Possible				Upgrade These Skills		Knowledge to Add	
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt
Oral Expression	57	11	56	No Skills Upgrade Required!			
Speech Recognition	41	4	59				
Time Sharing	42	3	50				
Far Vision	48	2	65				
Spatial Orientation	44	2	62				
LEVEL and IMPT (IMPORTANCE) refer to the Target Truck Drivers, Light or Delivery Services. GAP refers to level difference between Industrial Truck and Tractor Operators and Truck Drivers, Light or Delivery Services.							

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Industrial Truck and Tractor Operators	Truck Drivers, Light or Delivery Services	Importance
Multilimb Coordination	57	46	68
Far Vision	46	48	65
Problem Sensitivity	42	37	62
Spatial Orientation	42	44	62
Static Strength	71	55	62
Manual Dexterity	44	42	59
Control Precision	55	42	59
Reaction Time	57	50	59
Near Vision	41	41	59



Speech Recognition	37	41	59
Speech Clarity	41	41	59
Oral Comprehension	53	50	56
Oral Expression	46	57	56
Depth Perception	55	41	56
Written Comprehension	42	37	53
Selective Attention	46	41	53
Response Orientation	53	50	53
Information Ordering	44	35	50
Time Sharing	39	42	50
Arm-Hand Steadiness	41	34	50
Stamina	50	32	50
Extent Flexibility	59	42	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Industrial Truck and Tractor Operators	Truck Drivers, Light or Delivery Services	Importance
Knowledge Level Comparison - Knowledge with importance scores over 69			
Description	Industrial Truck and Tractor Operators	Truck Drivers, Light or Delivery Services	Importance

Experience & Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Industrial Truck and Tractor Operators	Truck Drivers, Light or Delivery Services	Description	Industrial Truck and Tractor Operators	Truck Drivers, Light or Delivery Services
10+ years	0%	0%	Doctoral	0%	0%
8-10 years	0%	0%	Professional Degree	0%	0%
6-8 years	0%	0%	Post-Masters Cert	0%	0%
4-6 years	0%	0%	Master's Degree	0%	0%
2-4 years	22%	0%	Post-Bachelor Cert	0%	0%
1-2 years	9%	12%	Bachelors	0%	0%
6-12 months	24%	33%	AA or Equiv	0%	0%
3-6 months	15%	2%	Some College	0%	1%
1-3 months	13%	9%	Post-Secondary Certificate	29%	0%
0-1 month	6%	6%	High School Diploma or GED	59%	75%
None	8%	34%	No HSD or GED	11%	22%

Industrial Truck and Tractor Operators

Truck Drivers, Light or Delivery Services

Most Common Educational/Training Requirement:

Short-term on-the-job training

Short-term on-the-job training

Job Zone Comparison

2 - Job Zone Two: Some Preparation Needed

2 - Job Zone Two: Some Preparation Needed



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.	Some previous work-related skill, knowledge, or experience may be helpful in these occupations, but usually is not needed. For example, a teller might benefit from experience working directly with the public, but an inexperienced person could still learn to be a teller with little difficulty.
These occupations usually require a high school diploma and may require some vocational training or job-related course work. In some cases, an associate's or bachelor's degree could be needed.	These occupations usually require a high school diploma and may require some vocational training or job-related course work. In some cases, an associate's or bachelor's degree could be needed.
Employees in these occupations need anywhere from a few months to one year of working with experienced employees.	Employees in these occupations need anywhere from a few months to one year of working with experienced employees.

Tasks

Industrial Truck and Tractor Operators	Truck Drivers, Light or Delivery Services
Core Tasks	Core Tasks
<p>Generalized Work Activities:</p> <ul style="list-style-type: none"> • Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft. • 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. • 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. • Identifying Objects, Actions, and Events - Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events. 	<p>Generalized Work Activities:</p> <ul style="list-style-type: none"> • Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft. • Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources. • Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things. • Performing for or Working Directly with the Public - Performing for people or dealing directly with the public. This includes serving customers in restaurants and stores, and receiving clients or guests. • 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	Specific Tasks
<p>Occupation Specific Tasks:</p> <ul style="list-style-type: none"> • Hook tow trucks to trailer hitches and fasten attachments, such as graders, plows, rollers, and winch cables to tractors, using hitchpins. • Manually load or unload materials onto or off pallets, skids, platforms, cars, or lifting devices. • Move controls to drive gasoline- or electric-powered trucks, cars, or tractors and transport materials between loading, processing, and storage areas. • Move levers and controls that operate lifting devices, such as forklifts, lift beams and swivel-hooks, hoists, and elevating platforms, to load, unload, transport, and stack material. • Operate or tend automatic stacking, 	<p>Occupation Specific Tasks:</p> <ul style="list-style-type: none"> • Drive trucks equipped with public address systems through city streets in order to broadcast announcements for advertising or publicity purposes. • Drive vehicles with capacities under three tons in order to transport materials to and from specified destinations such as railroad stations, plants, residences and offices, or within industrial yards. • Inspect and maintain vehicle supplies and equipment, such as gas, oil, water, tires, lights, and brakes in order to ensure that vehicles are in proper working condition. • Load and unload trucks, vans, or automobiles. • Maintain records such as vehicle logs, records of cargo, or billing statements in



loading, packaging, or cutting machines.

- Perform routine maintenance on vehicles and auxiliary equipment, such as cleaning, lubricating, recharging batteries, fueling, or replacing liquefied-gas tank.
- Position lifting devices under, over, or around loaded pallets, skids, and boxes, and secure material or products for transport to designated areas.
- Signal workers to discharge, dump, or level materials.
- Turn valves and open chutes to dump, spray, or release materials from dump cars or storage bins into hoppers.
- Weigh materials or products, and record weight and other production data on tags or labels.

Detailed Tasks

Detailed Work Activities:

- fasten attachments or accessories to tractor
- inspect material moving equipment
- load, unload, or stack containers, materials, or products
- maintain or repair cargo or passenger vehicle
- maintain production or work records
- measure, weigh, or count products or materials
- move or fit heavy objects
- operate cargo handling gear
- operate forklift
- operate material moving, loading, or unloading equipment
- operate packaging or banding machine or equipment
- operate tractor with accessories or attachments
- perform safety inspections in manufacturing or industrial setting
- signal directions or warnings to coworkers
- use hand or power tools
- use vehicle repair tools or safety equipment
- use weighing or measuring devices in transportation

Technology - Examples

Inventory management software

- Argos Software ABECAS Insight WMS
- ATMS StockTrack PLUS
- BarControl Enterprise Manager iBEM
- IntelliTrack Warehouse Management System WMS
- Lilly Software Associates VISUAL DCMS

accordance with regulations.

- Obey traffic laws, and follow established traffic and transportation procedures.
- Perform emergency repairs such as changing tires or installing light bulbs, fuses, tire chains, and spark plugs.
- Present bills and receipts, and collect payments for goods delivered or loaded.
- Read maps, and follow written and verbal geographic directions.
- Report any mechanical problems encountered with vehicles.
- Report delays, accidents, or other traffic and transportation situations to bases or other vehicles, using telephones or mobile two-way radios.
- Sell and keep records of sales for products from truck inventory.
- Turn in receipts and money received from deliveries.
- Use and maintain the tools and equipment found on commercial vehicles, such as weighing and measuring devices.
- Verify the contents of inventory loads against shipping papers.

Detailed Tasks

Detailed Work Activities:

- collect payment
- drive automobile, van, or light truck
- examine vehicle to detect malfunctions, damage, or maintenance needed
- follow traffic laws
- load, unload, or stack containers, materials, or products
- maintain or repair cargo or passenger vehicle
- maintain records, reports, or files
- perform safety inspections in transportation setting
- prepare reports
- prepare safety reports
- provide customer service in surface transportation
- read maps
- sell merchandise
- service vehicle with water, fuel, or oil
- transport passengers or cargo
- use established traffic or transportation procedures
- use geographic positioning system (GPS)
- use local or regional geographical knowledge to transportation
- use two-way radio or mobile phone
- use vehicle repair tools or safety equipment
- verify cargo against shipping papers



- Midland Information Systems inventory management software

- Motek Priya

- RedPrairie DLx Warehouse

- SAP warehouse management software

Materials requirements planning logistics and supply chain software

- Aldata G.O.L.D. software

- SSA Global Supply Chain Management

Tools - Examples

- Belt conveyors

- Bulk liquid trucks

- Container reach stackers

- Hustlers

- Industrial crane trucks

- Bridgeplates

- Dockboards

- Dollies

- Flatbed trailers

- Booms

- Cantilever trucks

- Fork-grapples

- Motorized hand trucks

- Overhead hoists

- Jacks

- Combination vacuum lifts

- High-lift order picker trucks

- Tank trailers

- Pallet trucks

- Personal computers

- Personnel and burden carriers

- Snow plows

- Swivel hooks

- Telescopic forklifts

Technology - Examples

Data base user interface and query software

- Record keeping software

Industrial control software

- FreightDATA Software

- Package location and tracking software

- Vehicle location and tracking software

Internet browser software

- Internet browser software

Inventory management software

- Computerized inventory tracking software

Route navigation software

- Automatic routing software

Tools - Examples

- Light trucks less than 3 tons

- Forklifts

- Global positioning system GPS devices

- Jacks

- Truck lift gates

- Pickup trucks

- Satellite linkup systems

- Vans

- Personal computers

- Electronic clipboards

- Scanners

- Two way radios

- Wheel blocks



- On-board computers for sending/receiving instructions
- Wheel chocks
- Banding equipment

Labor Market Comparison

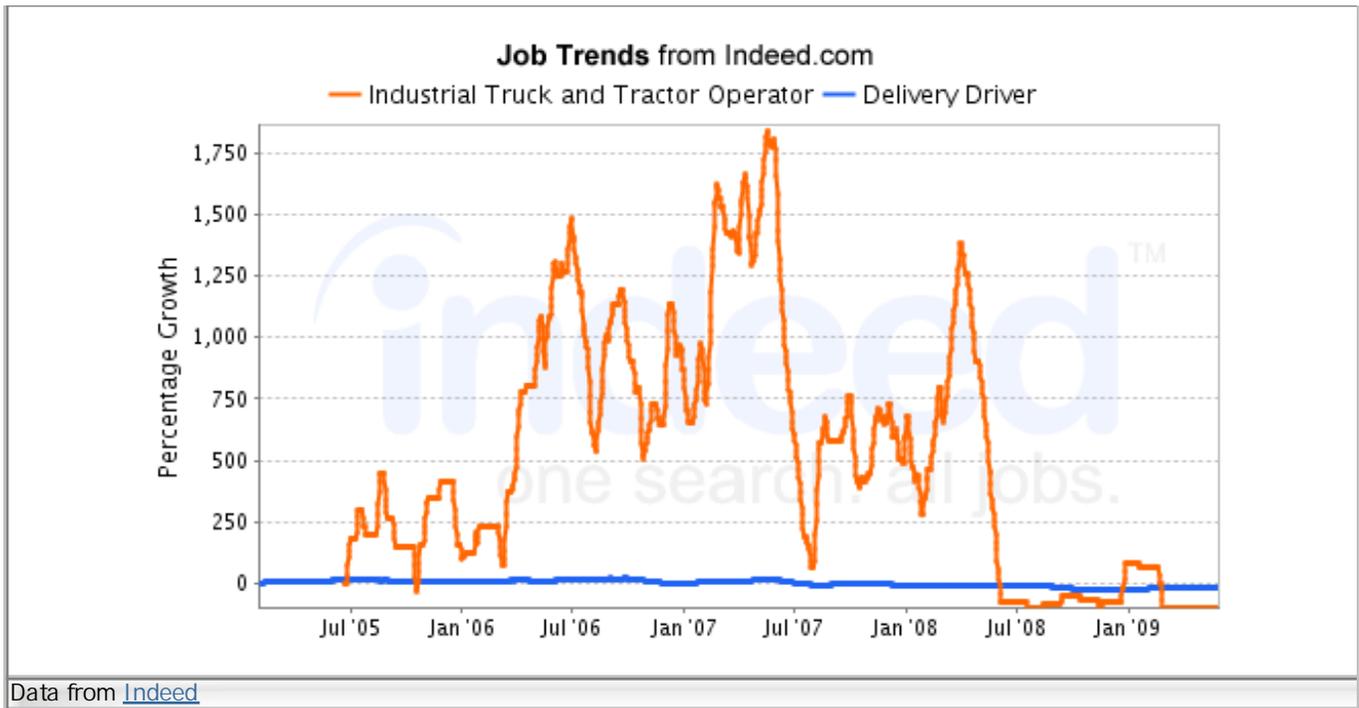
Maine Department of Labor.

Description	Industrial Truck and Tractor Operators	Truck Drivers, Light or Delivery Services	Difference
Median Wage	\$ 26,160	\$ 25,210	\$(950)
10th Percentile Wage	\$ 20,690	\$ 16,870	\$(3,820)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 32,090	\$ 35,180	\$ 3,090
90th Percentile Wage	\$ 38,670	\$ 51,770	\$ 13,100
Mean Wage	\$ 27,920	\$ 29,210	\$ 1,290
Total Employment - 2651	3,210	4,100	890
Employment Base - 2006	3,240	4,364	1,124
Projected Employment - 2660	3,180	4,678	1,498
Projected Job Growth - 2006-2660	-1.8 %	7.2 %	9.0 %
Projected Annual Openings - 2006-2660	82	108	26
Special			

Special Occupations:

National Job Posting Trends

Trend for Industrial Truck and Tractor Operators and Truck Drivers, Light or Delivery Services



Programs
Related Programs
Truck, Bus and Other Commercial Vehicle Operator
<p>Truck and Bus Driver/Commercial Vehicle Operation. A program that prepares individuals to apply technical knowledge and skills to drive trucks and buses, delivery vehicles, for-hire vehicles and other commercial vehicles. Includes instruction in operating gas, diesel, or electrically-powered vehicles; loading and unloading cargo or passengers; reporting delays or accidents on the road; verifying load against shipping papers; arranging transportation for personnel; and keeping records of receipts and fares.</p> <p>No information on schools for the program</p>

Maine Statewide Promotion Opportunities for Industrial Truck and Tractor Operators									
O* NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings	Special
53-7051.00	Industrial Truck and Tractor Operators	100	2	3,210	\$26,160.00	\$0.00	-2%	82	
53-3032.00	Truck Drivers, Heavy and Tractor-Trailer	85	2	9,940	\$31,140.00	\$4,980.00	3%	246	
51-9191.00	Cementing and Gluing Machine Operators and Tenders	84	1	80	\$27,620.00	\$1,460.00	-15%	2	
47-4051.00	Highway Maintenance Workers	84	2	2,210	\$28,790.00	\$2,630.00	7%	60	



47-4061.00	Rail-Track Laying and Maintenance Equipment Operators	82	1	120	\$36,960.00	\$10,800.00	8%	4	
43-5041.00	Meter Readers, Utilities	81	1	90	\$31,240.00	\$5,080.00	-11%	3	
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	81	2	260	\$28,330.00	\$2,170.00	-7%	5	
51-9121.00	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	81	2	850	\$38,860.00	\$12,700.00	-26%	19	
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	81	2	910	\$38,230.00	\$12,070.00	-26%	23	
53-7063.00	Machine Feeders and Offbearers	81	1	480	\$26,820.00	\$660.00	-22%	9	
53-4011.00	Locomotive Engineers	81	4	100	\$59,580.00	\$33,420.00	12%	4	
51-4031.00	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	80	2	450	\$27,500.00	\$1,340.00	-14%	11	
53-7032.00	Excavating and Loading Machine and Dragline Operators	80	2	330	\$32,160.00	\$6,000.00	6%	8	
51-4121.06	Welders, Cutters, and Welder Fitters	80	2	1,610	\$38,030.00	\$11,870.00	7%	49	



51-4191.00	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	80	2	40	\$32,470.00	\$6,310.00	-6%	1
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Special Occupations:

Top Industries for Truck Drivers, Light or Delivery Services

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Couriers	492100	14.40%	151,319	162,606	7.46%
Self-employed workers, primary job	000601	9.03%	94,906	101,110	6.54%
General freight trucking	484100	3.91%	41,067	46,451	13.11%
Building material and supplies dealers	444100	3.70%	38,932	49,751	27.79%
Grocery and related product wholesalers	424400	3.60%	37,819	41,354	9.35%
Automotive parts, accessories, and tire stores	441300	3.59%	37,717	36,797	-2.44%
Motor vehicle and motor vehicle parts and supplies merchant wholesalers	423100	2.96%	31,079	35,474	14.14%
Furniture stores	442100	2.65%	27,853	28,420	2.03%
Employment services	561300	2.48%	26,018	32,929	26.56%
Specialized freight trucking	484200	2.43%	25,532	28,759	12.64%
Limited-service eating places	722200	2.07%	21,752	23,707	8.99%
Miscellaneous nondurable goods merchant wholesalers	424900	1.92%	20,165	21,923	8.72%
Automobile dealers	441100	1.60%	16,852	19,117	13.44%
Warehousing and storage	493100	1.43%	14,994	20,027	33.57%
Florists	453100	1.42%	14,890	10,661	-28.40%

Top Industries for Industrial Truck and Tractor Operators

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Warehousing and storage	493100	12.45%	79,310	95,338	20.21%
Building material and supplies dealers	444100	8.14%	51,838	59,620	15.01%
Employment services	561300	6.01%	38,285	43,610	13.91%
Grocery and related product wholesalers	424400	4.08%	25,980	25,568	-1.59%
General freight trucking	484100	3.33%	21,218	21,599	1.80%
Motor vehicle parts manufacturing	336300	2.65%	16,903	12,111	-28.35%



Plastics product manufacturing	326100	2.44%	15,571	14,855	-4.60%
Converted paper product manufacturing	322200	2.19%	13,953	10,538	-24.47%
Lumber and other construction materials merchant wholesalers	423300	2.13%	13,579	14,037	3.37%
Fruit and vegetable preserving and specialty food manufacturing	311400	1.61%	10,255	8,368	-18.40%
Other wood product manufacturing	321900	1.53%	9,723	8,246	-15.19%
Sawmills and wood preservation	321100	1.35%	8,578	6,190	-27.84%
Couriers	492100	1.34%	8,561	8,280	-3.29%
Miscellaneous durable goods merchant wholesalers	423900	1.33%	8,504	8,786	3.32%
Beverage manufacturing	312100	1.21%	7,713	6,519	-15.48%



TORQ Analysis of Industrial Truck and Tractor Operators to Laborers and Freight, Stock, and Material Movers, Hand

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Industrial Truck and Tractor Operators	53-7051.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Laborers and Freight, Stock, and Material Movers, Hand	53-7062.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

TORQ RESULTS											
Grand TORQ:					86						
Ability TORQ		Skills TORQ		Knowledge TORQ							
Level	80	Level	91	Level	85						
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 Laborers and Freight, Stock, and Material Movers, Hand. GAP refers to level difference between Industrial Truck and Tractor Operators and Laborers and Freight, Stock, and Material Movers, Hand.											

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Industrial Truck and Tractor Operators	Laborers and Freight, Stock, and Material Movers, Hand	Importance
Static Strength	71	59	61
Trunk Strength	51	47	58
Extent Flexibility	59	46	58
Manual Dexterity	44	37	56
Visualization	46	35	50
Skill Level Comparison - Abilities with importance scores over 69			
Description	Industrial Truck and Tractor Operators	Laborers and Freight, Stock, and Material Movers, Hand	Importance
Knowledge Level Comparison - Knowledge with importance scores over 69			
Description	Industrial Truck and Tractor Operators	Laborers and Freight, Stock, and Material Movers, Hand	Importance



Experience & Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Industrial Truck and Tractor Operators	Laborers and Freight, Stock, and Material Movers, Hand	Description	Industrial Truck and Tractor Operators	Laborers and Freight, Stock, and Material Movers, Hand
10+ years	0%	1%	Doctoral	0%	4%
8-10 years	0%	0%	Professional Degree	0%	0%
6-8 years	0%	0%	Post-Masters Cert	0%	0%
4-6 years	0%	0%	Master's Degree	0%	0%
2-4 years	22%	1%	Post-Bachelor Cert	0%	0%
1-2 years	9%	14%	Bachelors	0%	0%
6-12 months	24%	5%	AA or Equiv	0%	5%
3-6 months	15%	15%	Some College	0%	0%
1-3 months	13%	11%	Post-Secondary Certificate	29%	0%
0-1 month	6%	9%	High School Diploma or GED	59%	69%
None	8%	38%	No HSD or GED	11%	19%

Industrial Truck and Tractor Operators

Laborers and Freight, Stock, and Material Movers, Hand

Most Common Educational/Training Requirement:

Short-term on-the-job training

Short-term on-the-job training

Job Zone Comparison

2 - Job Zone Two: Some Preparation Needed
 Some previous work-related skill, knowledge, or experience may be helpful in these occupations, but usually is not needed. For example, a teller might benefit from experience working directly with the public, but an inexperienced person could still learn to be a teller with little difficulty.
 These occupations usually require a high school diploma and may require some vocational training or job-related course work. In some cases, an associate's or bachelor's degree could be needed.
 Employees in these occupations need anywhere from a few months to one year of working with experienced employees.

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Tasks

Industrial Truck and Tractor Operators	Laborers and Freight, Stock, and Material Movers, Hand
<p>Core Tasks</p> <p>Generalized Work Activities:</p> <ul style="list-style-type: none"> Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft. Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things. Getting Information - Observing, receiving, 	<p>Core Tasks</p> <p>Generalized Work Activities:</p> <ul style="list-style-type: none"> Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials. Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources. Inspecting Equipment, Structures, or



and otherwise obtaining information from all relevant sources.

- 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.
- Identifying Objects, Actions, and Events - Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.

Specific Tasks

Occupation Specific Tasks:

- Hook tow trucks to trailer hitches and fasten attachments, such as graders, plows, rollers, and winch cables to tractors, using hitchpins.
- Manually load or unload materials onto or off pallets, skids, platforms, cars, or lifting devices.
- Move controls to drive gasoline- or electric-powered trucks, cars, or tractors and transport materials between loading, processing, and storage areas.
- Move levers and controls that operate lifting devices, such as forklifts, lift beams and swivel-hooks, hoists, and elevating platforms, to load, unload, transport, and stack material.
- Operate or tend automatic stacking, loading, packaging, or cutting machines.
- Perform routine maintenance on vehicles and auxiliary equipment, such as cleaning, lubricating, recharging batteries, fueling, or replacing liquefied-gas tank.
- Position lifting devices under, over, or around loaded pallets, skids, and boxes, and secure material or products for transport to designated areas.
- Signal workers to discharge, dump, or level materials.
- Turn valves and open chutes to dump, spray, or release materials from dump cars or storage bins into hoppers.
- Weigh materials or products, and record weight and other production data on tags or labels.

Detailed Tasks

Detailed Work Activities:

- fasten attachments or accessories to tractor
- inspect material moving equipment
- load, unload, or stack containers, materials, or products
- maintain or repair cargo or passenger vehicle
- maintain production or work records
- measure, weigh, or count products or materials

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.
- Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.

Specific Tasks

Occupation Specific Tasks:

- Adjust controls to guide, position and move equipment such as cranes, booms, and cameras.
- Adjust controls to raise and lower scenery and stage curtains during performances, following cues.
- Adjust or replace equipment parts such as rollers, belts, plugs, and caps, using hand tools.
- Assemble product containers and crates, using hand tools and precut lumber.
- Attach identifying tags to containers, or mark them with identifying information.
- Attach slings, hooks, and other devices to lift cargo and guide loads.
- Build braces and otherwise lash and shore cargo in ships' holds, in order to prevent shifting during voyages.
- Bundle and band material such as fodder and tobacco leaves, using banding machines.
- Carry needed tools and supplies from storage or trucks, and return them after use.
- Carry out general yard duties such as performing shunting on railway lines.
- Check out, rent, or requisition all equipment needed for productions or for set construction.
- Connect electrical equipment to power sources so that it can be tested before use.
- Connect hoses and operate equipment to move liquid materials into and out of storage tanks on vessels.
- Direct spouts and position receptacles such as bins, carts, and containers so they can be loaded.
- Erect tents and canopies to protect crews and equipment from weather.
- Guide loads being lifted in order to prevent swinging.
- Install protective devices, such as bracing, padding, or strapping, to prevent shifting or damage to items being transported.
- Lay tracks for camera dollies and cranes, and carry or push around dollies and cranes as instructed.
- Load and unload ship cargo, using winches and other hoisting devices.



- move or fit heavy objects
- operate cargo handling gear
- operate forklift
- operate material moving, loading, or unloading equipment
- operate packaging or banding machine or equipment
- operate tractor with accessories or attachments
- perform safety inspections in manufacturing or industrial setting
- signal directions or warnings to coworkers
- use hand or power tools
- use vehicle repair tools or safety equipment
- use weighing or measuring devices in transportation

Technology - Examples

Inventory management software

- Argos Software ABECAS Insight WMS
- ATMS StockTrack PLUS
- BarControl Enterprise Manager IBEM
- IntelliTrack Warehouse Management System WMS
- Lilly Software Associates VISUAL DCMS
- Midland Information Systems inventory management software
- Mbtex Priya
- RedPrairie DLx Warehouse
- SAP warehouse management software

Materials requirements planning logistics and supply chain software

- Aldata G.O.L.D. software
- SSA Global Supply Chain Management

Tools - Examples

- Belt conveyors
- Bulk liquid trucks
- Container reach stackers
- Hustlers
- Industrial crane trucks
- Bridgeplates
- Dockboards
- Dollies

- Maintain equipment storage areas to ensure that inventory is protected.
- Move freight, stock, and other materials to and from storage and production areas, loading docks, delivery vehicles, ships, and containers, by hand or using trucks, tractors, and other equipment.
- Pack containers and re-pack damaged containers.
- Read work orders or receive oral instructions to determine work assignments and material and equipment needs.
- Record numbers of units handled and moved, using daily production sheets or work tickets.
- Rig and dismantle props and equipment such as frames, scaffolding, platforms, or backdrops, using hand tools.
- Secure and release mooring lines of ships.
- Set up the equipment needed to produce special lighting and sound effects during performances.
- Sew canvas and other materials to make and repair tents, tarps, scrim, and backings, using sewing machines.
- Shovel material such as gravel, ice, or spilled concrete into containers or bins, or onto conveyors.
- Sort cargo before loading and unloading.
- Stack cargo in locations such as transit sheds or in holds of ships as directed, using pallets or cargo boards.
- Wash out cargo containers and storage areas.

Detailed Tasks

Detailed Work Activities:

- achieve special lighting or sound effects
- attach or mark identification onto products or containers
- clean equipment or machinery
- clean rooms or work areas
- dismantle or reassemble rigging
- handle props during performances
- load, unload, or stack containers, materials, or products
- maintain production or work records
- maintain safe work environment
- measure, weigh, or count products or materials
- move or fit heavy objects
- operate hoist, winch, or hydraulic boom
- operate packaging or banding machine or equipment
- operate sewing machine
- operate woodworking equipment/machinery
- package goods for shipment or storage
- perform safety inspections in manufacturing



- Flatbed trailers
- Booms
- Cantilever trucks
- Fork-grapples
- Motorized hand trucks
- Overhead hoists
- Jacks
- Combination vacuum lifts
- High-lift order picker trucks
- Tank trailers
- Pallet trucks
- Personal computers
- Personnel and burden carriers
- Snow plows
- Swivel hooks
- Telescopic forklifts
- On-board computers for sending/receiving instructions
- Wheel chocks
- Banding equipment

of industrial setting

- read technical drawings
- read work order, instructions, formulas, or processing charts
- repair specialized rigging
- requisition stock, materials, supplies or equipment
- set up specialized rigging
- signal directions or warnings to coworkers
- sort manufacturing materials or products
- use hand or power tools
- use hand or power woodworking tools
- use spray paint equipment
- use two-way radio or mobile phone
- wrap products

Technology - Examples

Data base user interface and query software

- Data entry software

Industrial control software

- Machine control software

Inventory management software

- Inventory tracking software

Spreadsheet software

- Spreadsheet software

Tools - Examples

- Dollies
- Forklifts
- Claw hammers
- Handtrucks
- Power hoists
- Jacks
- Lifting hooks
- Pallet transport trucks
- Personal computers
- Planes
- Power saws
- Hand saws
- Scaffolding
- Slings
- Winches



- Overhead cranes
- Banding machines

Labor Market Comparison

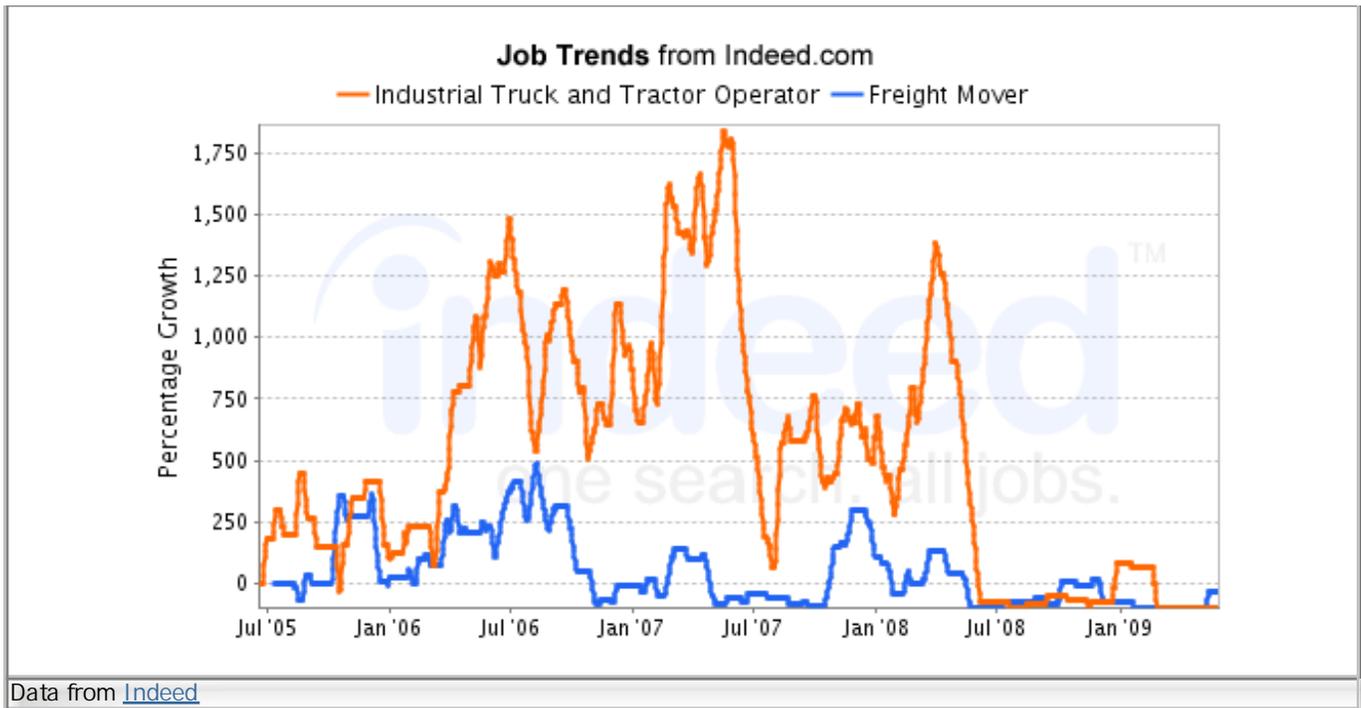
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75th Percentile Wage	\$ 32,090	\$ 26,170	\$(5,920)
90th Percentile Wage	\$ 38,670	\$ 31,550	\$(7,120)
Mean Wage	\$ 27,920	\$ 23,000	\$(4,920)
Total Employment - 2651	3,210	8,320	5,110
Employment Base - 2006	3,240	8,560	5,320
Projected Employment - 2660	3,180	8,354	5,174
Projected Job Growth - 2006-2660	-1.8 %	-2.4 %	-0.5 %
Projected Annual Openings - 2006-2660	82	274	192
Special			

Special Occupations:

National Job Posting Trends

Trend for Industrial Truck and Tractor Operators and Laborers and Freight, Stock, and Material Movers, Hand



Programs

No information on programs or the occupation.

Maine Statewide Promotion Opportunities for Industrial Truck and Tractor Operators

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51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	81	2	910	\$38,230.00	\$12,070.00	-26%	23
43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators	80	2	970	\$41,950.00	\$15,790.00	-12%	10
51-2021.00	Coil Winders, Tapers, and Finishers	80	2	90	\$31,910.00	\$5,750.00	-53%	1
51-4031.00	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	80	2	450	\$27,500.00	\$1,340.00	-14%	11
53-7032.00	Excavating and Loading Machine and Dragline Operators	80	2	330	\$32,160.00	\$6,000.00	6%	8

Special Occupations:

Top Industries for Laborers and Freight, Stock, and Material Movers, Hand



Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Employment services	561300	19.40%	468,592	533,758	13.91%
Warehousing and storage	493100	5.89%	142,188	170,924	20.21%
Couriers	492100	5.31%	128,381	124,161	-3.29%
Grocery and related product wholesalers	424400	3.05%	73,798	72,627	-1.59%
General freight trucking	484100	2.90%	70,150	71,413	1.80%
Building material and supplies dealers	444100	1.98%	47,890	55,080	15.01%
Grocery stores	445100	1.81%	43,792	43,002	-1.80%
Specialized freight trucking	484200	1.69%	40,898	41,459	1.37%
Miscellaneous durable goods merchant wholesalers	423900	1.69%	40,948	42,309	3.32%
Miscellaneous nondurable goods merchant wholesalers	424900	1.48%	35,809	35,039	-2.15%
Local government, excluding education and hospitals	939300	1.45%	35,063	35,451	1.10%
Wholesale electronic markets and agents and brokers	425100	1.33%	32,082	32,765	2.13%
Lumber and other construction materials merchant wholesalers	423300	1.31%	31,750	32,822	3.37%
Management of companies and enterprises	551100	1.03%	24,918	25,853	3.75%
Furniture stores	442100	1.00%	24,189	22,213	-8.17%

Top Industries for Industrial Truck and Tractor Operators

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Warehousing and storage	493100	12.45%	79,310	95,338	20.21%
Building material and supplies dealers	444100	8.14%	51,838	59,620	15.01%
Employment services	561300	6.01%	38,285	43,610	13.91%
Grocery and related product wholesalers	424400	4.08%	25,980	25,568	-1.59%
General freight trucking	484100	3.33%	21,218	21,599	1.80%
Motor vehicle parts manufacturing	336300	2.65%	16,903	12,111	-28.35%
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Other wood product manufacturing	321900	1.53%	9,723	8,246	-15.19%
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TORQ Analysis of Industrial Truck and Tractor Operators to Truck Drivers, Heavy and Tractor-Trailer

ANALYSIS INPUT					
Transfer	Title	O*NET	Filters		
From Title:	Industrial Truck and Tractor Operators	53-7051.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Truck Drivers, Heavy and Tractor-Trailer	53-3032.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

TORQ RESULTS					
Grand TORQ:					85
Ability TORQ		Skills TORQ		Knowledge TORQ	
Level	 78	Level	 93	Level	 85

Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Explosive Strength	50	36	54	Equipment Maintenance	63	7	75	Transportation	61	7	87
Spatial Orientation	57	15	79								
Reaction Time	70	13	83								
Response Orientation	65	12	79								
Rate Control	51	12	60								
Far Vision	53	7	83								
Time Sharing	50	11	52								
Night Vision	42	10	54								
Static Strength	75	4	83								
Near Vision	45	4	70								
Peripheral Vision	42	3	56								
Oral Expression	48	2	54								
Written Comprehension	44	2	52								
Visualization	48	2	52								
Hearing Sensitivity	42	1	56								

LEVEL and IMPT (IMPORTANCE) refer to the Target Truck Drivers, Heavy and Tractor-Trailer. GAP refers to level difference between Industrial Truck and Tractor Operators and Truck Drivers, Heavy and Tractor-Trailer.

ASK ANALYSIS
Ability Level Comparison - Abilities with importance scores over 50

Description	Industrial Truck and Tractor Operators	Truck Drivers, Heavy and Tractor-Trailer	Importance
Reaction Time	57	70	83
Static Strength	71	75	83
Far Vision	46	53	83
Spatial Orientation	42	57	79
Response Orientation	53	65	79
Near Vision	41	45	70
Depth Perception	55	51	66
Multilimb Coordination	57	46	62
Extent Flexibility	59	57	62
Manual Dexterity	44	42	60
Rate Control	39	51	60
Trunk Strength	51	48	60
Peripheral Vision	39	42	56
Hearing Sensitivity	41	42	56
Oral Comprehension	53	47	54
Oral Expression	46	48	54
Information Ordering	44	42	54
Control Precision	55	48	54
Explosive Strength	14	50	54
Night Vision	32	42	54
Written Comprehension	42	44	52
Visualization	46	48	52
Time Sharing	39	50	52
Dynamic Strength	48	45	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Industrial Truck and Tractor Operators	Truck Drivers, Heavy and Tractor-Trailer	Importance
Equipment Maintenance	56	63	75

Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Industrial Truck and Tractor Operators	Truck Drivers, Heavy and Tractor-Trailer	Importance
Transportation	54	61	87

Experience & Education Comparison

Related Work Experience Comparison

Required Education Level Comparison



Description	Industrial Truck and Tractor Operators	Truck Drivers, Heavy and Tractor-Trailer	Description	Industrial Truck and Tractor Operators	Truck Drivers, Heavy and Tractor-Trailer
10+ years	0%	0%	Doctoral	0%	0%
8-10 years	0%	0%	Professional Degree	0%	0%
6-8 years	0%	0%	Post-Masters Cert	0%	0%
4-6 years	0%	5%	Master's Degree	0%	0%
2-4 years	22%	1%	Post-Bachelor Cert	0%	0%
1-2 years	9%	71%	Bachelors	0%	0%
6-12 months	24%	10%	AA or Equiv	0%	0%
3-6 months	15%	0%	Some College	0%	3%
1-3 months	13%	0%	Post-Secondary Certificate	29%	21%
0-1 month	6%	1%	High School Diploma or GED	59%	53%
None	8%	9%	No HSD or GED	11%	22%

Industrial Truck and Tractor Operators	Truck Drivers, Heavy and Tractor-Trailer
Most Common Educational/Training Requirement:	
Short-term on-the-job training	Moderate-term on-the-job training
Job Zone Comparison	
2 - Job Zone Two: Some Preparation Needed	2 - Job Zone Two: Some Preparation Needed
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.	Some previous work-related skill, knowledge, or experience may be helpful in these occupations, but usually is not needed. For example, a teller might benefit from experience working directly with the public, but an inexperienced person could still learn to be a teller with little difficulty.
These occupations usually require a high school diploma and may require some vocational training or job-related course work. In some cases, an associate's or bachelor's degree could be needed.	These occupations usually require a high school diploma and may require some vocational training or job-related course work. In some cases, an associate's or bachelor's degree could be needed.
Employees in these occupations need anywhere from a few months to one year of working with experienced employees.	Employees in these occupations need anywhere from a few months to one year of working with experienced employees.

Tasks	
Industrial Truck and Tractor Operators	Truck Drivers, Heavy and Tractor-Trailer
Core Tasks	Core Tasks
<p>Generalized Work Activities:</p> <ul style="list-style-type: none"> • Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft. • 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. • 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. 	<p>Generalized Work Activities:</p> <ul style="list-style-type: none"> • Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft. • Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects. • Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources. • Identifying Objects, Actions, and Events - Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events. • Performing General Physical Activities -



- Identifying Objects, Actions, and Events - Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.

Specific Tasks

Occupation Specific Tasks:

- Hook tow trucks to trailer hitches and fasten attachments, such as graders, plows, rollers, and winch cables to tractors, using hitchpins.
- Manually load or unload materials onto or off pallets, skids, platforms, cars, or lifting devices.
- Move controls to drive gasoline- or electric-powered trucks, cars, or tractors and transport materials between loading, processing, and storage areas.
- Move levers and controls that operate lifting devices, such as forklifts, lift beams and swivel-hooks, hoists, and elevating platforms, to load, unload, transport, and stack material.
- Operate or tend automatic stacking, loading, packaging, or cutting machines.
- Perform routine maintenance on vehicles and auxiliary equipment, such as cleaning, lubricating, recharging batteries, fueling, or replacing liquefied-gas tank.
- Position lifting devices under, over, or around loaded pallets, skids, and boxes, and secure material or products for transport to designated areas.
- Signal workers to discharge, dump, or level materials.
- Turn valves and open chutes to dump, spray, or release materials from dump cars or storage bins into hoppers.
- Weigh materials or products, and record weight and other production data on tags or labels.

Detailed Tasks

Detailed Work Activities:

- fasten attachments or accessories to tractor
- inspect material moving equipment
- load, unload, or stack containers, materials, or products
- maintain or repair cargo or passenger vehicle
- maintain production or work records
- measure, weigh, or count products or materials
- move or fit heavy objects
- operate cargo handling gear
- operate forklift
- operate material moving, loading, or unloading equipment
- operate packaging or banding machine or

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:

- Check all load-related documentation to ensure that it is complete and accurate.
- Check conditions of trailers after contents have been unloaded to ensure that there has been no damage.
- Check vehicles before driving them to ensure that mechanical, safety, and emergency equipment is in good working order.
- Climb ladders to inspect loads after loading is complete, in order to ensure that cargo is secure.
- Collaborate with other drivers as part of a driving team on some trips.
- Collect delivery instructions from appropriate sources, verifying instructions and routes.
- Couple and uncouple trailers by changing trailer jack positions, connecting or disconnecting air and electrical lines, and manipulating fifth-wheel locks.
- Crank trailer landing gear up and down to safely secure vehicles.
- Drive trucks to weigh stations before and after loading and along routes, in order to document weights and to comply with state regulations.
- Drive trucks with capacities greater than 3 tons, including tractor-trailer combinations, in order to transport and deliver products, livestock, or other materials.
- Follow appropriate safety procedures when transporting dangerous goods.
- Follow special procedures related to specific cargo, such as checking refrigeration systems when carrying frozen foods, or providing food and water when carrying livestock.
- Give directions to laborers who are packing goods and moving them onto trailers.
- Install and remove special equipment such as tire chains, grader blades, plow blades, and sanders.
- Inventory and inspect goods to be moved, in order to determine quantities and conditions.
- Load and unload trucks, or help others with loading and unloading, operating any special loading-related equipment on vehicles and using other equipment as necessary.
- Maintain logs of working hours and of vehicle service and repair status, following applicable state and federal regulations.
- Maneuver trucks into loading or unloading



equipment

- operate tractor with accessories or attachments
- perform safety inspections in manufacturing or industrial setting
- signal directions or warnings to coworkers
- use hand or power tools
- use vehicle repair tools or safety equipment
- use weighing or measuring devices in transportation

Technology - Examples

Inventory management software

- Argos Software ABECAS Insight WMS
- ATMS StockTrack PLUS
- BarControl Enterprise Manager iBEM
- IntelliTrack Warehouse Management System WMS
- Lilly Software Associates VISUAL DCMS
- Midland Information Systems inventory management software
- Mbtex Priya
- RedPrairie DLx Warehouse
- SAP warehouse management software

Materials requirements planning logistics and supply chain software

- Aldata G.O.L.D. software
- SSA Global Supply Chain Management

Tools - Examples

- Belt conveyors
- Bulk liquid trucks
- Container reach stackers
- Hustlers
- Industrial crane trucks
- Bridgeplates
- Dockboards
- Dollies
- Flatbed trailers
- Booms
- Cantilever trucks

positions, following signals from loading crew as needed; check that vehicle position is correct and any special loading equipment is properly positioned.

- Obtain receipts or signatures when loads are delivered, and collect payment for services when required.
- Operate equipment such as truck cab computers, CB radios, and telephones to exchange necessary information with bases, supervisors, or other drivers.
- Operate trucks equipped with snowplows and sander attachments to maintain roads in winter weather.
- Perform basic vehicle maintenance tasks such as adding oil, fuel, and radiator fluid, or performing minor repairs.
- Perform emergency roadside repairs such as changing tires and installing light bulbs, tire chains, and spark plugs.
- Place empty carts and pallets in trailers so they will be available to facilitate placement and movement of goods.
- Read and interpret maps in order to determine vehicle routes.
- Read bills of lading to determine assignment details.
- Remove any debris from trailers after loading is completed.
- Report vehicle defects, accidents, traffic violations, or damage to the vehicles.
- Secure cargo for transport, using ropes, blocks, chain, binders, and/or covers.
- Wrap goods using pads, packing paper, and containers, and secure loads to trailer walls, using straps.

Detailed Tasks

Detailed Work Activities:

- collect payment
- direct and coordinate activities of workers or staff
- drive tractor-trailer truck
- drive truck with capacity greater than 3 tons
- examine vehicle to detect malfunctions, damage, or maintenance needed
- follow traffic laws
- load, unload, or stack containers, materials, or products
- maintain driver log according to I.C.C. regulations
- maintain or repair cargo or passenger vehicle
- maintain records, reports, or files
- move or fit heavy objects
- operate cleaning equipment
- perform safety inspections in transportation setting



- Fork-grapples
- Motorized hand trucks
- Overhead hoists
- Jacks
- Combination vacuum lifts
- High-lift order picker trucks
- Tank trailers
- Pallet trucks
- Personal computers
- Personnel and burden carriers
- Snow plows
- Swivel hooks
- Telescopic forklifts
- On-board computers for sending/receiving instructions
- Wheel chocks
- Banding equipment

- prepare reports
- prepare safety reports
- read maps
- service vehicle with water, fuel, or oil
- transport passengers or cargo
- use established traffic or transportation procedures
- use geographic positioning system (GPS)
- use local or regional geographical knowledge to transportation
- use truck-mounted hydraulic lifts or other accessories
- use two-way radio or mobile phone
- use vehicle repair tools or safety equipment
- use weighing or measuring devices in transportation
- verify cargo against shipping papers
- work as a team member
- wrap products

Technology - Examples

Data base user interface and query software

- Easy Trucker software
- Fog Line Software Truckn2004
- Truckers Helper software

Inventory management software

- Computerized inventory tracking software

Route navigation software

- ALK Technologies PC* Miler
- MarcoSoft Quo Vadis

Tools - Examples

- Compressors
- Blocks and tackle
- Flatbed trucks
- Pup trailers
- Trucks greater than 26000 pounds
- Dump trucks
- Lowboy trailers
- Forklifts
- Global positioning system GPS devices
- Handtrucks
- Cargo hoists



- Handlifts
- Satellite linkup systems
- Personal digital assistants PDA
- Refuse collection trucks
- Plow attachments
- Boom trucks
- On-board computers
- 4-ranger tower trucks
- Sliding fifth wheels
- Two way radios
- Wheeled loaders
- Winches

Labor Market Comparison

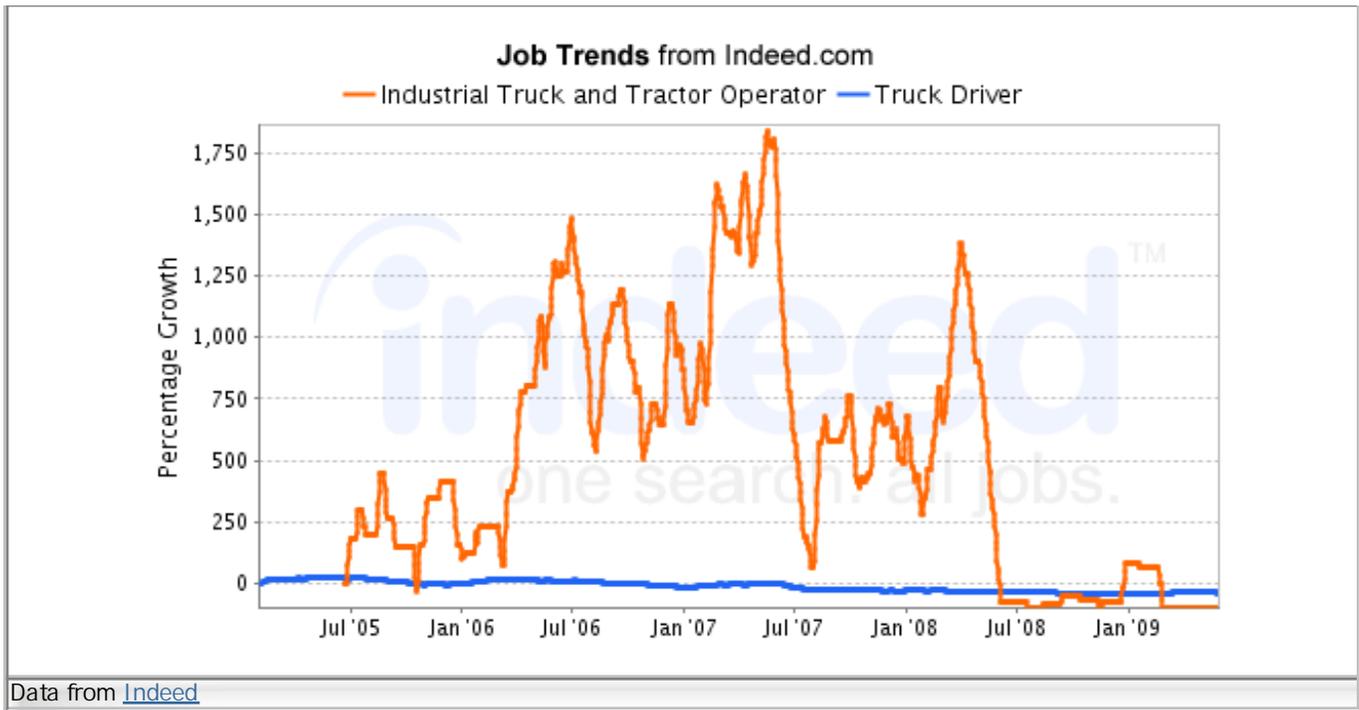
Maine Department of Labor.

Description	Industrial Truck and Tractor Operators	Truck Drivers, Heavy and Tractor-Trailer	Difference
Median Wage	\$ 26,160	\$ 31,140	\$ 4,980
10th Percentile Wage	\$ 20,690	\$ 21,630	\$ 940
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 32,090	\$ 39,070	\$ 6,980
90th Percentile Wage	\$ 38,670	\$ 48,350	\$ 9,680
Mean Wage	\$ 27,920	\$ 33,190	\$ 5,270
Total Employment - 2651	3,210	9,940	6,730
Employment Base - 2006	3,240	11,827	8,587
Projected Employment - 2660	3,180	12,184	9,004
Projected Job Growth - 2006-2660	-1.8 %	3.0 %	4.9 %
Projected Annual Openings - 2006-2660	82	246	164
Special			

Special Occupations:

National Job Posting Trends

Trend for Industrial Truck and Tractor Operators and Truck Drivers, Heavy and Tractor-Trailer



Programs
Related Programs
Truck, Bus and Other Commercial Vehicle Operator
<p>Truck and Bus Driver/Commercial Vehicle Operation. A program that prepares individuals to apply technical knowledge and skills to drive trucks and buses, delivery vehicles, for-hire vehicles and other commercial vehicles. Includes instruction in operating gas, diesel, or electrically-powered vehicles; loading and unloading cargo or passengers; reporting delays or accidents on the road; verifying load against shipping papers; arranging transportation for personnel; and keeping records of receipts and fares.</p> <p>No information on schools for the program</p>

Maine Statewide Promotion Opportunities for Industrial Truck and Tractor Operators									
O* NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings	Special
53-7051.00	Industrial Truck and Tractor Operators	100	2	3,210	\$26,160.00	\$0.00	-2%	82	
53-3032.00	Truck Drivers, Heavy and Tractor-Trailer	85	2	9,940	\$31,140.00	\$4,980.00	3%	246	
47-4051.00	Highway Maintenance Workers	84	2	2,210	\$28,790.00	\$2,630.00	7%	60	
51-9191.00	Cementing and Gluing Machine Operators and Tenders	84	1	80	\$27,620.00	\$1,460.00	-15%	2	



47-4061.00	Rail-Track Laying and Maintenance Equipment Operators	82	1	120	\$36,960.00	\$10,800.00	8%	4	
43-5041.00	Meter Readers, Utilities	81	1	90	\$31,240.00	\$5,080.00	-11%	3	
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	81	2	260	\$28,330.00	\$2,170.00	-7%	5	
51-9121.00	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	81	2	850	\$38,860.00	\$12,700.00	-26%	19	
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	81	2	910	\$38,230.00	\$12,070.00	-26%	23	
53-4011.00	Locomotive Engineers	81	4	100	\$59,580.00	\$33,420.00	12%	4	
53-7063.00	Machine Feeders and Offbearers	81	1	480	\$26,820.00	\$660.00	-22%	9	
51-4121.06	Welders, Cutters, and Welder Fitters	80	2	1,610	\$38,030.00	\$11,870.00	7%	49	★
51-4191.00	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	80	2	40	\$32,470.00	\$6,310.00	-6%	1	
51-4031.00	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	80	2	450	\$27,500.00	\$1,340.00	-14%	11	



53-7032.00	Excavating and Loading Machine and Dragline Operators	80	2	330	\$32,160.00	\$6,000.00	6%	8
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Special Occupations:

Top Industries for Truck Drivers, Heavy and Tractor-Trailer

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
General freight trucking	484100	31.71%	589,766	667,086	13.11%
Specialized freight trucking	484200	12.05%	224,032	252,341	12.64%
Self-employed workers, primary job	000601	8.51%	158,317	168,666	6.54%
Cement and concrete product manufacturing	327300	4.17%	77,512	84,135	8.55%
Grocery and related product wholesalers	424400	3.31%	61,617	67,377	9.35%
Other specialty trade contractors	238900	2.59%	48,100	53,161	10.52%
Employment services	561300	2.24%	41,689	52,763	26.56%
Support activities for road transportation	488400	1.73%	32,238	35,449	9.96%
Waste collection	562100	1.60%	29,808	37,582	26.08%
Warehousing and storage	493100	1.55%	28,770	38,426	33.57%
Couriers	492100	1.49%	27,785	29,858	7.46%
Highway, street, and bridge construction	237300	1.45%	26,980	29,048	7.66%
Lumber and other construction materials merchant wholesalers	423300	1.30%	24,253	27,857	14.86%
Building material and supplies dealers	444100	1.20%	22,263	28,450	27.79%
Local government, excluding education and hospitals	939300	1.17%	21,759	24,444	12.34%

Top Industries for Industrial Truck and Tractor Operators

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Warehousing and storage	493100	12.45%	79,310	95,338	20.21%
Building material and supplies dealers	444100	8.14%	51,838	59,620	15.01%
Employment services	561300	6.01%	38,285	43,610	13.91%
Grocery and related product wholesalers	424400	4.08%	25,980	25,568	-1.59%
General freight trucking	484100	3.33%	21,218	21,599	1.80%
Motor vehicle parts manufacturing	336300	2.65%	16,903	12,111	-28.35%
Plastics product manufacturing	326100	2.44%	15,571	14,855	-4.60%
Converted paper product manufacturing	322200	2.19%	13,953	10,538	-24.47%



Lumber and other construction materials merchant wholesalers	423300	2.13%	13,579	14,037	3.37%
Fruit and vegetable preserving and specialty food manufacturing	311400	1.61%	10,255	8,368	-18.40%
Other wood product manufacturing	321900	1.53%	9,723	8,246	-15.19%
Sawmills and wood preservation	321100	1.35%	8,578	6,190	-27.84%
Couriers	492100	1.34%	8,561	8,280	-3.29%
Miscellaneous durable goods merchant wholesalers	423900	1.33%	8,504	8,786	3.32%
Beverage manufacturing	312100	1.21%	7,713	6,519	-15.48%



TORQ Analysis of Industrial Truck and Tractor Operators to Nursery Workers

ANALYSIS INPUT					
Transfer	Title	O* NET	Filters		
From Title:	Industrial Truck and Tractor Operators	53-7051.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Nursery Workers	45-2092.01	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

TORQ RESULTS											
Grand TORQ:								85			
Ability TORQ			Skills TORQ			Knowledge TORQ					
Level		90	Level		85	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
Category Flexibility	46	5	53	No Skills Upgrade Required!				No Knowledge Upgrades Required!			
Trunk Strength	53	2	62								
Finger Dexterity	41	2	53								
Gross Body Coordination	39	2	50								
LEVEL and IMPT (IMPORTANCE) refer to the Target Nursery Workers. GAP refers to level difference between Industrial Truck and Tractor Operators and Nursery Workers.											

ASK ANALYSIS			
Ability Level Comparison - Abilities with importance scores over 50			
Description	Industrial Truck and Tractor Operators	Nursery Workers	Importance
Static Strength	71 	55 	62 
Trunk Strength	51 	53 	62 
Arm-Hand Steadiness	41 	41 	59 
Multilimb Coordination	57 	46 	59 
Stamina	50 	35 	59 
Extent Flexibility	59 	51 	56 
Category Flexibility	41 	46 	53 
Manual Dexterity	44 	44 	53 
Finger Dexterity	39 	41 	53 



Control Precision	55	50	53
Dynamic Strength	48	35	53
Problem Sensitivity	42	42	50
Flexibility of Closure	42	42	50
Gross Body Coordination	37	39	50
Near Vision	41	41	50
Speech Recognition	37	37	50
Speech Clarity	41	32	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Industrial Truck and Tractor Operators	Nursery Workers	Importance
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Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Industrial Truck and Tractor Operators	Nursery Workers	Importance
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Experience & Education Comparison

Related Work Experience Comparison				Required Education Level Comparison		
Description	Industrial Truck and Tractor Operators	Nursery Workers		Description	Industrial Truck and Tractor Operators	Nursery Workers
10+ years	0%	0%		Doctoral	0%	13%
8-10 years	0%	0%		Professional Degree	0%	0%
6-8 years	0%	0%		Post-Masters Cert	0%	0%
4-6 years	0%	0%		Master's Degree	0%	0%
2-4 years	22%	0%		Post-Bachelor Cert	0%	0%
1-2 years	9%	8%		Bachelors	0%	0%
6-12 months	24%	16%		AA or Equiv	0%	0%
3-6 months	15%	0%		Some College	0%	5%
1-3 months	13%	0%		Post-Secondary Certificate	29%	1%
0-1 month	6%	27%		High School Diploma or GED	59%	57%
None	8%	46%		No HSD or GED	11%	22%

Industrial Truck and Tractor Operators	Nursery Workers
Most Common Educational/Training Requirement:	
Short-term on-the-job training	Short-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>1 - Job Zone One: Little or No Preparation Needed</p> <p>No previous work-related skill, knowledge, or experience is needed for these occupations. For example, a person can become a cashier even if he/she has never worked before.</p> <p>These occupations may require a high school diploma or GED certificate. Some may require a formal training course to obtain a license.</p>



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

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

Industrial Truck and Tractor Operators

Core Tasks

Generalized Work Activities:

- Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.
- 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.
- 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.
- Identifying Objects, Actions, and Events - Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.

Specific Tasks

Occupation Specific Tasks:

- Hook tow trucks to trailer hitches and fasten attachments, such as graders, plows, rollers, and winch cables to tractors, using hitchpins.
- Manually load or unload materials onto or off pallets, skids, platforms, cars, or lifting devices.
- Move controls to drive gasoline- or electric-powered trucks, cars, or tractors and transport materials between loading, processing, and storage areas.
- Move levers and controls that operate lifting devices, such as forklifts, lift beams and swivel-hooks, hoists, and elevating platforms, to load, unload, transport, and stack material.
- Operate or tend automatic stacking, loading, packaging, or cutting machines.
- Perform routine maintenance on vehicles and auxiliary equipment, such as cleaning, lubricating, recharging batteries, fueling, or replacing liquefied-gas tank.
- Position lifting devices under, over, or around loaded pallets, skids, and boxes, and secure material or products for transport to designated areas.

Nursery Workers

Core Tasks

Generalized Work Activities:

- 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.
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
- Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.
- Repairing and Maintaining Mechanical Equipment - Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).

Specific Tasks

Occupation Specific Tasks:

- Apply pesticides, herbicides or fertilizers to crops.
- Clear and maintain irrigation ditches.
- Dig and plant seeds, or transplant seedlings by hand.
- Direct and monitor the work of casual and seasonal help during planting and harvesting.
- Harvest fruits and vegetables by hand.
- Identify plants, pests, and weeds to determine the selection and application of pesticides and fertilizers.
- Inform farmers or farm managers of crop progress.
- Load agricultural products into trucks, and drive trucks to market or storage facilities.
- Operate tractors, tractor-drawn machinery, and self-propelled machinery to plow, harrow and fertilize soil, or to plant, cultivate, spray and harvest crops.
- Participate in the inspection, grading, sorting, storage, and post-harvest treatment of crops.
- Record information about crops, such as



- Signal workers to discharge, dump, or level materials.
- Turn valves and open chutes to dump, spray, or release materials from dump cars or storage bins into hoppers.
- Weigh materials or products, and record weight and other production data on tags or labels.

Detailed Tasks

Detailed Work Activities:

- fasten attachments or accessories to tractor
- inspect material moving equipment
- load, unload, or stack containers, materials, or products
- maintain or repair cargo or passenger vehicle
- maintain production or work records
- measure, weigh, or count products or materials
- move or fit heavy objects
- operate cargo handling gear
- operate forklift
- operate material moving, loading, or unloading equipment
- operate packaging or banding machine or equipment
- operate tractor with accessories or attachments
- perform safety inspections in manufacturing or industrial setting
- signal directions or warnings to coworkers
- use hand or power tools
- use vehicle repair tools or safety equipment
- use weighing or measuring devices in transportation

Technology - Examples

Inventory management software

- Argos Software ABECAS Insight WMS
- ATMS StockTrack PLUS
- BarControl Enterprise Manager iBEM
- IntelliTrack Warehouse Management System WMS
- Lilly Software Associates VISUAL DCMS
- Midland Information Systems inventory management software
- Mbotek Priya
- RedPrairie DLx Warehouse
- SAP warehouse management software

pesticide use, yields, or costs.

- Repair and maintain farm vehicles, implements, and mechanical equipment.
- Repair farm buildings, fences, and other structures.
- Set up and operate irrigation equipment.

Detailed Tasks

Detailed Work Activities:

- clean rooms or work areas
- construct, erect, or repair wooden frameworks or structures
- direct and coordinate activities of workers or staff
- drive automobile, van, or light truck
- drive truck with capacity greater than 3 tons
- examine animals to detect illness, disease, or injury
- fasten attachments or accessories to tractor
- feed or water animals
- fell or buck trees
- follow horticulture irrigation techniques
- groom animals
- hand harvest agricultural crops
- identify crop characteristics
- identify fruit or vegetable or crops ready for harvest
- identify livestock characteristics
- load, unload, or stack containers, materials, or products
- maintain or repair cargo or passenger vehicle
- maintain or repair farm vehicles, machinery, or mechanical implements
- move or fit heavy objects
- operate agricultural equipment or machinery
- operate power driven pumps
- operate tractor with accessories or attachments
- perform safety inspections in agricultural, forestry, or fishing setting
- plant, cultivate, or harvest crops, including aquaculture
- recognize disease or parasites in animals
- recognize plant diseases
- use chain saws
- use hand or power tools
- use herbicides, fertilizers, pesticides or related products
- use vehicle repair tools or safety equipment

Technology - Examples



Materials requirements planning logistics and supply chain software

- Aldata G.O.L.D. software
- SSA Global Supply Chain Management

Tools - Examples

- Belt conveyors
- Bulk liquid trucks
- Container reach stackers
- Hustlers
- Industrial crane trucks
- Bridgeplates
- Dockboards
- Dollies
- Flatbed trailers
- Booms
- Cantilever trucks
- Fork-grapples
- Motorized hand trucks
- Overhead hoists
- Jacks
- Combination vacuum lifts
- High-lift order picker trucks
- Tank trailers
- Pallet trucks
- Personal computers
- Personnel and burden carriers
- Snow plows
- Swivel hooks
- Telescopic forklifts
- On-board computers for sending/receiving instructions
- Wheel chocks
- Banding equipment



Labor Market Comparison

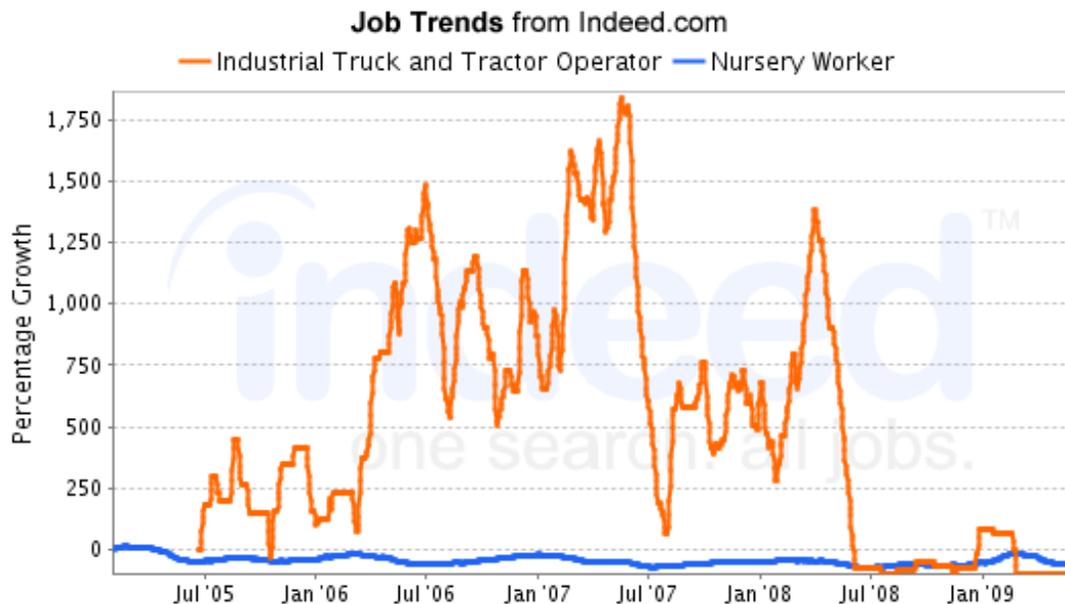
Maine Department of Labor.

Description	Industrial Truck and Tractor Operators	Nursery Workers	Difference
Median Wage	\$ 26,160	\$ 19,720	\$(6,440)
10th Percentile Wage	\$ 20,690	\$ 15,040	\$(5,650)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 32,090	\$ 26,560	\$(5,530)
90th Percentile Wage	\$ 38,670	\$ 34,490	\$(4,180)
Mean Wage	\$ 27,920	\$ 22,350	\$(5,570)
Total Employment - 2651	3,210	360	-2,850
Employment Base - 2006	3,240	1,375	-1,865
Projected Employment - 2660	3,180	1,579	-1,601
Projected Job Growth - 2006-2660	-1.8 %	14.8 %	16.7 %
Projected Annual Openings - 2006-2660	82	54	-28
Special			

Special Occupations:

National Job Posting Trends

Trend for Industrial Truck and Tractor Operators and Nursery Workers



Data from [Indeed](#)**Programs**

Related Programs

Agricultural Animal Husbandry and Production Manag

Animal/Livestock Husbandry and Production. A program that prepares individuals to select, breed, care for, process, and market livestock and small farm animals. Includes instruction in basic animal science, animal nutrition, and animal health as applied to various species and breeds; design and operation of housing, feeding, and processing facilities; and related issues of safety, applicable regulations, logistics, and supply.

No information on schools for the program

Agricultural Production Operations, General

Agricultural Production Operations, General. A program that focuses on the general planning, economics, and use of facilities, natural resources, equipment, labor, and capital to produce plant and animal products, and that may prepare individuals for work in farming, ranching, and agribusiness.

No information on schools for the program

Agricultural Production Workers and Managers, Gene

Agricultural Production Operations, General. A program that focuses on the general planning, economics, and use of facilities, natural resources, equipment, labor, and capital to produce plant and animal products, and that may prepare individuals for work in farming, ranching, and agribusiness.

No information on schools for the program

Crop Production

Crop Production. A program that prepares individuals to cultivate grain, fiber, forage, oilseed, fruits and nuts, vegetables, and other domesticated plant products. Includes instruction in basic principles of plant science, health, and nutrition as applied to particular species and breeds; soil preparation and irrigation; pest management; planting and harvesting operations; product marketing; and applicable issues of safety, regulation, logistics, and supply.

No information on schools for the program

Crop Production Operations and Management

Crop Production. A program that prepares individuals to cultivate grain, fiber, forage, oilseed, fruits and nuts, vegetables, and other domesticated plant products. Includes instruction in basic principles of plant science, health, and nutrition as applied to particular species and breeds; soil preparation and irrigation; pest management; planting and harvesting operations; product marketing; and applicable issues of safety, regulation, logistics, and supply.

No information on schools for the program

Greenhouse Operations and Management

Greenhouse Operations and Management. A program that prepares individuals to produce, store, and deliver plant species in controlled indoor environments for wholesale, commercial, research, or other purposes. Includes instruction in applicable principles of plant science; climate, irrigation, and nutrition control equipment operation and maintenance; facilities management; inventory control; safety procedures; and personnel supervision.

No information on schools for the program

Horticulture Services Operations and Management, G

Applied Horticulture/Horticulture Operations, General. A program that focuses on the general production and processing of domesticated plants, shrubs, flowers, foliage, trees, groundcovers, and related plant materials; the management of technical and business operations connected with horticultural services; and the basic scientific principles needed to understand plants and their management and care.

Institution	Address	City	URL
University of Maine at Augusta	46 University Dr	Augusta	www.uma.maine.edu/



Southern Maine Community College

2 Fort Road

South Portland

www.smccME.edu

Horticulture Services Operations and Management, O

Applied Horticulture/Horticultural Business Services, Other. Any instructional program in horticultural service operations not listed above.

No information on schools for the program

Nursery Operations and Management

Plant Nursery Operations and Management. A program that prepares individuals to operate and manage outdoor plant farms, tree and shrub nurseries, and related facilities that develop domesticated plant products for propagation, harvesting, and transplantation. Includes instruction in applicable principles of plant science; farm and business management; nursery operations; equipment operation and maintenance; safety procedures; and personnel supervision.

No information on schools for the program

Ornamental Horticulture Operations and Management

Ornamental Horticulture. A program that focuses on domesticated plants and plant materials used for decorative and recreational applications and prepares individuals to breed, grow, and utilize ornamental plant varieties for commercial and aesthetic purposes. Includes instruction in applicable plant science subjects, the environmental design and artistic aspects of horticultural product usage, and the management of horticultural operations.

Institution	Address	City	URL
Unity College	90 Quaker Hill Road	Unity	www.unity.edu
Unity College	90 Quaker Hill Road	Unity	www.unity.edu

Maine Statewide Promotion Opportunities for Industrial Truck and Tractor Operators

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings	Special
53-7051.00	Industrial Truck and Tractor Operators	100	2	3,210	\$26,160.00	\$0.00	-2%	82	
53-3032.00	Truck Drivers, Heavy and Tractor-Trailer	85	2	9,940	\$31,140.00	\$4,980.00	3%	246	
51-9191.00	Cementing and Gluing Machine Operators and Tenders	84	1	80	\$27,620.00	\$1,460.00	-15%	2	
47-4051.00	Highway Maintenance Workers	84	2	2,210	\$28,790.00	\$2,630.00	7%	60	
47-4061.00	Rail-Track Laying and Maintenance Equipment Operators	82	1	120	\$36,960.00	\$10,800.00	8%	4	

43-5041.00	Meter Readers, Utilities	81	1	90	\$31,240.00	\$5,080.00	-11%	3
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	81	2	260	\$28,330.00	\$2,170.00	-7%	5
53-7063.00	Machine Feeders and Offbearers	81	1	480	\$26,820.00	\$660.00	-22%	9
53-4011.00	Locomotive Engineers	81	4	100	\$59,580.00	\$33,420.00	12%	4
51-9121.00	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	81	2	850	\$38,860.00	\$12,700.00	-26%	19
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	81	2	910	\$38,230.00	\$12,070.00	-26%	23
43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators	80	2	970	\$41,950.00	\$15,790.00	-12%	10
51-2021.00	Coil Winders, Tapers, and Finishers	80	2	90	\$31,910.00	\$5,750.00	-53%	1
51-4031.00	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	80	2	450	\$27,500.00	\$1,340.00	-14%	11
53-7032.00	Excavating and Loading Machine and Dragline Operators	80	2	330	\$32,160.00	\$6,000.00	6%	8

Special Occupations:



Top Industries for Nursery Workers

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Crop production; primary job	111000	42.46%	256,091	218,562	-14.65%
Animal production; primary job	112000	34.10%	205,631	206,347	0.35%
Wage and salary workers with secondary jobs in agriculture, forestry, fishing, and hunting	000510	5.14%	31,023	32,507	4.79%
Miscellaneous nondurable goods merchant wholesalers	424900	2.81%	16,936	20,522	21.18%
Unpaid family workers, primary job	000701	2.04%	12,315	10,859	-11.82%
Lawn and garden equipment and supplies stores	444200	2.00%	12,064	13,308	10.32%
Unpaid family workers, secondary job	000702	1.06%	6,397	5,493	-14.14%
Beverage manufacturing	312100	0.79%	4,748	4,970	4.67%
Employment services	561300	0.70%	4,236	5,975	41.06%
Grocery and related product wholesalers	424400	0.41%	2,498	3,044	21.88%
Landscaping services	561730	0.36%	2,141	2,763	29.06%
Florists	453100	0.26%	1,561	1,246	-20.20%
Self-employed workers, primary job	000601	0.22%	1,322	1,569	18.74%
Local government, excluding education and hospitals	939300	0.21%	1,257	1,574	25.21%
Research and development in the physical, engineering, and life sciences	541710	0.14%	858	1,020	18.91%

Top Industries for Industrial Truck and Tractor Operators

Industry	NAICS	% of Industry	Employment	Projected Employment	% Change
Warehousing and storage	493100	12.45%	79,310	95,338	20.21%
Building material and supplies dealers	444100	8.14%	51,838	59,620	15.01%
Employment services	561300	6.01%	38,285	43,610	13.91%
Grocery and related product wholesalers	424400	4.08%	25,980	25,568	-1.59%
General freight trucking	484100	3.33%	21,218	21,599	1.80%
Motor vehicle parts manufacturing	336300	2.65%	16,903	12,111	-28.35%
Plastics product manufacturing	326100	2.44%	15,571	14,855	-4.60%
Converted paper product manufacturing	322200	2.19%	13,953	10,538	-24.47%
Lumber and other construction materials merchant wholesalers	423300	2.13%	13,579	14,037	3.37%
Fruit and vegetable preserving and specialty food manufacturing	311400	1.61%	10,255	8,368	-18.40%



Other wood product manufacturing	321900	1.53%	9,723	8,246	-15.19%
Sawmills and wood preservation	321100	1.35%	8,578	6,190	-27.84%
Couriers	492100	1.34%	8,561	8,280	-3.29%
Miscellaneous durable goods merchant wholesalers	423900	1.33%	8,504	8,786	3.32%
Beverage manufacturing	312100	1.21%	7,713	6,519	-15.48%

Industry & Occupational Data Sources

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

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

Labor Market Comparisons Occupational Projections data from Maine Department of Labor

National Posting Trends Indeed.com

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

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