



TORO Analysis of Industrial Truck and Tractor Operators to Truck Drivers, Heavy and Tractor-Trailer

INPUT SECTION:

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

OUTPUT SECTION:

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
Active Listening	52	46	70

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

Tasks	
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.



- 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

- Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.

Specific Tasks

Occupation Specific Tasks:

- 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



- 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

Tools - Examples

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

vehicle service and repair status, following applicable state and federal regulations.

- Maneuver trucks into loading or unloading 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



• 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

<ul style="list-style-type: none"> • perform safety inspections in transportation setting • 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
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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

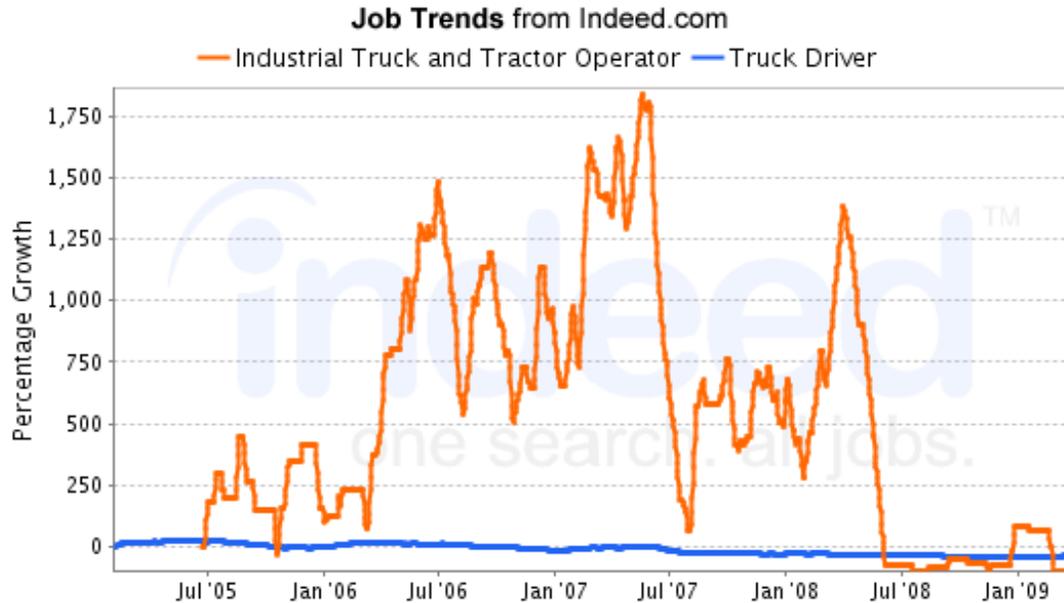
Labor Market Comparison

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 - 2007	3,210	9,940	6,730
Employment Base - 2006	3,240	11,827	8,587
Projected Employment - 2016	3,180	12,184	9,004
Projected Job Growth - 2006-2016	-1.8 %	3.0 %	4.9 %
Projected Annual Openings - 2006-2016	82	246	164

National Job Posting Trends

Trend for Industrial Truck and Tractor Operators

Trend for
Truck
Drivers,
Heavy and
Tractor-Trailer



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

Recommended Programs

Truck, Bus and Other Commercial Vehicle Operator

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.

No schools available for the program

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
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
37-3013.00	Tree Trimmers and Pruners	81	2	0	\$38,080.00	\$11,920.00	0%	0
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

Top Industries for Truck Drivers, Heavy and Tractor-Trailer

Industry	NAICS	% in 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	% in 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%