

NEW HAMPSHIRE CAREER PLANNING GUIDE 2020-2030

Architecture and Construction Cluster Occupation, SOC Code, and Description	NH Occupational Projections					Future Outlook	2021 Wage Entry Level Median	Usual Education	Entry-Level Preparation			Apprentice	Military	NH License	Holland Interests			Career Pathways
	Employment		Avg. Annual Openings						Experience	Training	1 <sup>st</sup>				2 <sup>nd</sup>	3 <sup>rd</sup>		
	2020	2030	Exits	Transfers	Total													
<b>Architects, Except Landscape and Naval</b> (17-1011): Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property.	218	232	6	10	17	↘	\$24.71 \$37.61	Bachelor's degree	None	Internship/residency		★	★	A	I		Design/Pre-Construction	
<b>Architectural and Civil Drafters</b> (17-3011): Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways and bridges.	558	575	17	36	55	↗	\$20.48 \$28.95	Associate's degree	None	None	★			R	C	A	Design/Pre-Construction	
<b>Boilermakers</b> (47-2011): Construct, assemble, maintain, and repair stationary steam boilers and boiler house auxiliaries. Assemble boiler frame tanks or vats, following blueprints. Assist in testing assembled vessels. Inspect and repair fittings, such as safety valves, regulators, or water columns.	n	n	n	n	n	↓	n/a n/a	High school diploma or equivalent	None	Apprenticeship	★	★		R	C		Maintenance/Operations	
<b>Brickmasons and Blockmasons</b> (47-2021): Lay and bind building materials, such as brick, structural tile, concrete block, cinder block, glass block, and terra-cotta block with mortar and other substances to construct or repair walls, partitions, arches, sewers, and other structures.	289	284	9	18	27	↗	\$21.14 \$29.43	High school diploma or equivalent	None	Apprenticeship	★	★		R	C	I	Construction	
<b>Carpenters</b> (47-2031): Construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms, building frameworks - including partitions, joists, studding, and rafters - and wood stairways, window and door frames, and hardwood floors. May install cabinets, siding, or drywall.	4,077	4,232	121	259	396	↗	\$19.12 \$23.22	High school diploma or equivalent	None	Apprenticeship	★	★		R	C	I	Construction	
<b>Carpet Installers</b> (47-2041): Lay and install carpet from rolls or blocks on floors. Install padding and trim flooring materials.	113	108	3	6	9	↓	\$15.64 \$22.61	No formal educational credential	None	Short-term OJT	★			R	E		Construction	
<b>Cement Masons and Concrete Finishers</b> (47-2051): Smooth and finish surfaces of poured concrete, such as floors, walks, sidewalks, roads, or curbs using a variety of hand and power tools. Align forms for sidewalks, curbs, or gutters; patch voids; and use saws to cut expansion joints.	235	241	6	16	23	↘	\$17.80 \$22.56	No formal educational credential	None	Moderate-term OJT	★	★		R	E		Construction	
<b>Civil Engineering Technologists and Technicians</b> (17-3022): Apply theory and principles of civil engineering in planning, designing, and overseeing construction and maintenance of structures and facilities under the direction of engineering staff or physical scientists.	n	n	n	n	n	↘	\$21.62 \$28.52	Associate's degree	None	None		★		R	C	I	Design/Pre-Construction	
<b>Civil Engineers</b> (17-2051): Perform engineering duties to plan, design, and oversee construction and maintenance of building structures and facilities such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, or water and sewage systems.	1,418	1,612	30	76	125	↑	\$29.14 \$38.19	Bachelor's degree	None	None		★	★	R	I	C	Design/Pre-Construction	
<b>Commercial Divers</b> (49-9092): Using scuba gear, work below surface of water to inspect, repair, remove, or install equipment and structures. May use tools such as drills, torches, or welding equipment. May conduct tests or experiments, rig explosives, or photograph structures or marine life.	n	n	n	n	n	↗	\$19.05 \$25.18	Postsecondary non-degree award	None	Moderate-term OJT		★		R			Maintenance/Operations	

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<b>Construction Laborers (47-2061):</b> Perform tasks involving physical labor at construction sites. May operate hand or power tools such as air hammers, earth tampers, cement mixers, or hoists. May clean or prepare sites, dig trenches, set excavation braces, erect scaffolding, or clean up rubble or debris.	3,552	3,909	110	252	398	↑	\$15.99 \$18.63	No formal educational credential	None	Short-term OJT	★			R	C		Construction
<b>Construction Managers (11-9021):</b> Plan, direct, or coordinate - usually through subordinate supervisors - construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a project and oversee organization, schedule, budget, and implementation.	1,689	1,923	37	91	151	↑	\$35.83 \$47.73	Bachelor's degree	None	Moderate-term OJT		★		E	R	C	Construction
<b>Control and Valve Installers and Repairers, Except Mechanical Door (49-9012):</b> Install, repair, and maintain mechanical regulating and controlling devices, such as electric meters, gas regulators, thermostats, safety and flow valves, and other mechanical governors.	88	91	2	5	7	↘	\$22.90 \$31.10	High school diploma or equivalent	None	Moderate-term OJT	★	★		R	C	I	Maintenance/Operations
<b>Conveyor Operators and Tenders (53-7011):</b> Control or tend conveyors or conveyor systems that move materials or products to and from stockpiles, processing stations, departments, or vehicles. May control speed and routing of materials or products.	131	148	4	12	18	↗	\$14.35 \$16.51	No formal educational credential	None	Short-term OJT	★			R	C		Construction
<b>Cost Estimators (13-1051):</b> Prepare cost estimates for product manufacturing, construction projects, or services to aid management in bidding on or determining price of product or service. May specialize according to particular service performed or type of product manufactured.	740	767	21	46	70	↗	\$21.29 \$30.51	Bachelor's degree	None	Moderate-term OJT		★		C	E		Design/Pre-Construction
<b>Crane and Tower Operators (53-7021):</b> Operate mechanical boom and cable or tower and cable equipment to lift and move materials, machines, or products in many directions.	145	150	4	11	15	↘	\$20.35 \$30.61	High school diploma or equivalent	Less than 5 years	Moderate-term OJT	★	★		R	C	I	Construction
<b>Drywall and Ceiling Tile Installers (47-2081):</b> Apply plasterboard or other wallboard to ceilings or interior walls of buildings. Apply or mount acoustical tiles or blocks, strips, or sheets of shock-absorbing materials to ceilings and walls of buildings to reduce or reflect sound.	424	454	11	25	39	↗	\$11.50 \$22.29	No formal educational credential	None	Moderate-term OJT	★			R	C		Construction
<b>Earth Drillers, Except Oil and Gas; and Explosives Workers, Ordnance Handling Experts, and Blasters (47-5097):</b> Operate a variety of drills such as rotary, churn, and pneumatic to tap sub-surface water and salt deposits, to remove core samples during mineral exploration or soil testing, and to facilitate the use of explosives in mining or construction.	207	225	7	18	27	↑	n/a n/a	High school diploma or equivalent	Less than 5 years	Long-term OJT	★	★	★	R	I	C	Construction
<b>Electrical Power-Line Installers and Repairers (49-9051):</b> Install or repair cables or wires used in electrical power or distribution systems. May erect poles and light or heavy duty transmission towers.	922	941	18	63	83	↗	\$32.25 \$46.31	High school diploma or equivalent	None	Long-term OJT	★	★	★	R	I	C	Maintenance/Operations
<b>Electricians (47-2111):</b> Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems.	2,968	3,297	91	230	354	↑	\$19.52 \$28.76	High school diploma or equivalent	None	Apprenticeship	★	★	★	R	I	C	Construction
<b>Elevator and Escalator Installers and Repairers (47-4021):</b> Assemble, install, repair, or maintain electric or hydraulic freight or passenger elevators, escalators, or dumbwaiters.	n	n	n	n	n	↘	\$25.06 \$31.40	High school diploma or equivalent	None	Apprenticeship	★	★	★	R	I	C	Maintenance/Operations

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	2020	2030	Exits	Transfers	Total												
<b>Excavating and Loading Machine and Dragline Operators (53-7032):</b> Operate or tend machinery equipped with scoops, shovels, or buckets to excavate and load loose materials.	n	n	n	n	n	↑	\$22.15 \$23.02	High school diploma or equivalent	Less than 5 years	Moderate-term OJT	★		R			Construction	
<b>Fence Erectors (47-4031):</b> Erect and repair fences and fence gates, using hand and power tools.	n	n	n	n	n	↘	\$17.16 \$19.31	No formal educational credential	None	Moderate-term OJT	★		R	C		Construction	
<b>First-Line Supervisors of Construction Trades and Extraction Workers (47-1011):</b> Directly supervise and coordinate activities of construction or extraction workers. Includes Solar Energy Installation Managers.	2,722	2,927	80	183	283	↑	\$24.49 \$30.43	High school diploma or equivalent	5 years or more	None		★	★	E	R	C	Construction
<b>First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers (37-1012):</b> Directly supervise and coordinate activities of workers engaged in landscaping or groundskeeping activities. May review contracts, answer inquiries from potential customers, and prepare cost estimates.	1,314	1,375	42	96	144	↗	\$18.30 \$27.25	High school diploma or equivalent	Less than 5 years	None				E	R	C	Maintenance/Ope rations
<b>Floor Layers, Except Carpet, Wood, and Hard Tiles (47-2042):</b> Apply blocks, strips, or sheets of shock-absorbing, sound-deadening, or decorative coverings to floors.	n	n	n	n	n	↗	\$20.06 \$23.50	No formal educational credential	None	Moderate-term OJT	★			R	C		Construction
<b>Floor Sanders and Finishers (47-2043):</b> Scrape and sand wooden floors to smooth surfaces using floor scraper and floor sanding machine, and apply coats of finish.	n	n	n	n	n	↘	n/a n/a	No formal educational credential	None	Moderate-term OJT				R			Construction
<b>Glaziers (47-2121):</b> Install glass in windows, skylights, store fronts, and display cases, or on surfaces such as building fronts, interior walls, ceilings, and tabletops.	276	291	8	22	32	↗	\$19.05 \$23.37	High school diploma or equivalent	None	Apprenticeship	★			R	C		Construction
<b>Grounds Maintenance Workers, All Other (37-3019):</b> All grounds maintenance workers not listed separately.	n	n	n	n	n	↘	\$14.73 \$18.04	No formal educational credential	None	Short-term OJT				R	C		Maintenance/Ope rations
<b>Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021):</b> Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.	2,302	2,429	61	161	235	↗	\$19.87 \$28.78	Postsecondary non-degree award	None	Long-term OJT	★	★	★	R	C	I	Maintenance/Ope rations
<b>Helpers, Construction Trades, All Other (47-3019):</b> All construction trades helpers not listed separately.	86	93	3	8	12	↘	\$15.45 \$21.75	No formal educational credential	None	Short-term OJT		★		R	C		Construction
<b>Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters (47-3011):</b> Help brick, block, or stonemasons, or tile and marble setters by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment.	155	153	4	14	18	↓	\$16.87 \$18.59	No formal educational credential	None	Short-term OJT	★			R			Construction
<b>Helpers--Carpenters (47-3012):</b> Help carpenters by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment.	163	169	5	14	20	↘	\$12.16 \$17.48	No formal educational credential	None	Short-term OJT				R	C		Construction
<b>Helpers--Electricians (47-3013):</b> Help electricians by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment.	152	155	4	13	17	↘	\$12.08 \$13.60	High school diploma or equivalent	None	Short-term OJT				R	C		Construction

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<b>Helpers--Extraction Workers (47-5081):</b> Help extraction craft workers, such as earth drillers, blasters and explosives workers, derrick operators, and mining machine operators by performing duties requiring less skill. Duties include supplying equipment or cleaning work area.	109	120	4	10	15	↘	\$17.60 \$22.69	High school diploma or equivalent	None	Moderate-term OJT	★			R	C		Construction
<b>Helpers--Installation, Maintenance, and Repair Workers (49-9098):</b> Help installation, maintenance, and repair workers to maintain and repair vehicles, machinery, and equipment. Perform duties such as furnishing or holding tools, materials, and supplies, or cleaning work area, machines, and tools.	567	612	25	49	78	↑	\$12.52 \$15.47	High school diploma or equivalent	None	Short-term OJT	★			R	C	I	Construction
<b>Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters (47-3015):</b> Help plumbers, pipefitters, steamfitters, or pipelayers by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment.	192	207	6	18	26	↑	\$14.17 \$18.04	High school diploma or equivalent	None	Short-term OJT				R			Construction
<b>Helpers--Roofers (47-3016):</b> Help roofers by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment.	n	n	n	n	n	↘	n/a n/a	No formal educational credential	None	Short-term OJT				R	C		Construction
<b>Highway Maintenance Workers (47-4051):</b> Maintain highways, municipal and rural roads, airport runways, and rights-of-way. Patch broken or eroded pavement, and repair guard rails, highway markers, and snow fences. May mow or clear brush from along road or plow snow from roadway.	1,577	1,670	64	102	175	↗	\$15.42 \$18.74	High school diploma or equivalent	None	Moderate-term OJT				R	C		Maintenance/Operations
<b>Insulation Workers, Floor, Ceiling, and Wall (47-2131):</b> Line and cover structures with insulating materials. May work with batt, roll, or blown insulation materials.	215	231	5	15	22	↘	\$16.80 \$18.46	No formal educational credential	None	Short-term OJT	★			R			Construction
<b>Interior Designers (27-1025):</b> Plan, design, and furnish interiors of residential, commercial, or industrial buildings. Formulate design which is practical, aesthetic, and conducive to intended purposes, such as raising productivity, selling merchandise, or improving life style.	317	312	10	19	29	↗	\$20.69 \$29.75	Bachelor's degree	None	None	★			A	E		Design/Pre-Construction
<b>Landscape Architects (17-1012):</b> Plan and design land areas for projects such as parks and other recreational facilities, airports, highways, hospitals, schools, land subdivisions, and commercial, industrial, and residential sites.	25	25	1	1	2	↓	\$28.35 \$29.70	Bachelor's degree	None	Internship/residency			★	A	I	R	Design/Pre-Construction
<b>Landscaping and Groundskeeping Workers (37-3011):</b> Landscape or maintain property grounds using hand or power tools or equipment. Tasks may include sod laying, mowing, trimming, digging, raking, planting, watering, fertilizing, sprinkler installation, or installing mortarless concrete wall units.	6,758	7,315	303	603	962	↑	\$13.48 \$17.92	No formal educational credential	None	Short-term OJT	★			R	C		Maintenance/Operations
<b>Manufactured Building and Mobile Home Installers (49-9095):</b> Move or install mobile homes or prefabricated buildings.	86	68	3	5	6	↓	\$16.42 \$22.78	High school diploma or equivalent	None	Short-term OJT			★	R	C		Maintenance/Operations
<b>Mechanical Door Repairers (49-9011):</b> Install, service, or repair automatic door mechanisms and hydraulic doors. Includes garage door mechanics.	125	150	3	8	13	↗	\$12.69 \$22.81	High school diploma or equivalent	None	Moderate-term OJT	★	★		R			Construction
<b>Millwrights (49-9044):</b> Install, dismantle, or move machinery and heavy equipment according to layout plans, blueprints, or other drawings.	68	71	2	4	6	↘	\$21.06 \$29.20	High school diploma or equivalent	None	Apprenticeship	★			R	C	I	Maintenance/Operations

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<b>Miscellaneous Construction and Related Workers (47-4090):</b> All construction and related workers not listed separately, including Segmental Pavers (47-4091).	73	80	2	6	9	↘	n/a n/a	High school diploma or equivalent	None	Moderate-term OJT	★	★		R			Maintenance/Operations	
<b>Operating Engineers and Other Construction Equipment Operators (47-2073):</b> Operate construction equipment, such as graders, bulldozers, scrapers, compressors, pumps, derricks, shovels, tractors, or front-end loaders to excavate, move, and grade earth, erect structures, or pour concrete.	1,375	1,484	47	102	160	↑	\$18.84 \$23.27	High school diploma or equivalent	None	Moderate-term OJT	★	★		R	C	I	Construction	
<b>Painters, Construction and Maintenance (47-2141):</b> Paint walls, equipment, buildings, bridges, and other structural surfaces using brushes, rollers, and spray guns. May remove old paint to prepare surface prior to painting. May mix colors or oils to obtain desired color or consistency.	1,274	1,367	40	73	122	↑	\$15.36 \$22.25	No formal educational credential	None	Moderate-term OJT	★			R	C		Construction	
<b>Paving, Surfacing, and Tamping Equipment Operators (47-2071):</b> Operate equipment used for applying concrete, asphalt, or other materials to road beds, parking lots, or airport runways and taxiways, or equipment used for tamping gravel, dirt, or other materials.	256	275	9	19	30	↑	\$21.14 \$23.22	High school diploma or equivalent	None	Moderate-term OJT	★	★		R	C		Construction	
<b>Pipelayers (47-2151):</b> Lay pipe for storm or sanitation sewers, drains, and water mains. Perform any combination of the following tasks: grade trenches or culverts, position pipe, or seal joints.	53	52	2	4	6	↓	\$22.04 \$28.73	No formal educational credential	None	Short-term OJT		★		R			Construction	
<b>Plasterers and Stucco Masons (47-2161):</b> Apply interior or exterior plaster, cement, stucco, or similar materials. May also set ornamental plaster.	n	n	n	n	n	↘	\$13.13 \$16.31	No formal educational credential	None	Long-term OJT	★			R			Construction	
<b>Plumbers, Pipefitters, and Steamfitters (47-2152):</b> Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems. Includes sprinklerfitters.	1,912	2,048	58	142	214	↗	\$19.91 \$28.72	High school diploma or equivalent	None	Apprenticeship	★	★	★	R	C	I	Construction	
<b>Riggers (49-9096):</b> Set up or repair rigging for construction projects, manufacturing plants, logging yards, ships and shipyards, or for the entertainment industry.	47	48	1	4	5	↘	\$18.15 \$22.88	High school diploma or equivalent	None	Moderate-term OJT	★	★		R	C	I	Construction	
<b>Rock Splitters, Quarry (47-5051):</b> Separate blocks of rough dimension stone from quarry mass using jackhammer and wedges.	n	n	n	n	n	↓	\$20.85 \$23.10	No formal educational credential	None	Short-term OJT		★		R	C		Construction	
<b>Roofers (47-2181):</b> Cover roofs of structures with shingles, slate, asphalt, aluminum, wood, or related materials. May spray roofs, sidings, and walls with material to bind, seal, insulate, or soundproof sections of structures.	250	267	6	18	26	↗	\$17.38 \$22.72	No formal educational credential	None	Moderate-term OJT				R	C		Construction	
<b>Septic Tank Servicers and Sewer Pipe Cleaners (47-4071):</b> Clean and repair septic tanks, sewer lines, or drains. May patch walls and partitions of tank, replace damaged drain tile, or repair breaks in underground piping.	164	188	6	14	22	↗	\$17.96 \$22.74	High school diploma or equivalent	None	Moderate-term OJT			★	R			Maintenance/Operations	
<b>Sheet Metal Workers (47-2211):</b> Fabricate, assemble, install, and repair sheet metal products such as ducts, control boxes, drainpipes, and furnace casings. May set up and operate machines to cut, bend, or straighten sheet metal; shape using hammer; or solder and weld to join sheet metal parts.	502	536	14	34	51	↗	\$17.25 \$23.50	High school diploma or equivalent	None	Apprenticeship	★	★		R			Construction	

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<b>Solar Photovoltaic Installers (47-2231):</b> Assemble, install, or maintain solar photovoltaic (PV) systems on roofs or other structures in compliance with site assessment and schematics. May include measuring, cutting, assembling, and bolting structural framing and solar modules. May perform minor electrical work such as current checks.	n	n	n	n	n	↗	\$22.31 \$28.55	High school diploma or equivalent	None	Moderate-term OJT				R	C		Construction				
<b>Stonemasons (47-2022):</b> Build stone structures such as piers, walls, and abutments. Lay walks, curbstones, or special types of masonry for vats, tanks, and floors.	131	131	4	8	12	↓	\$19.81 \$22.55	High school diploma or equivalent	None	Apprenticeship	★			R			Construction				
<b>Structural Iron and Steel Workers (47-2221):</b> Raise, place, and unite iron or steel girders, columns, and other structural members to form completed structures or structural frameworks. May erect metal storage tanks and assemble prefabricated metal buildings.	175	191	5	14	21	↘	\$18.48 \$23.64	High school diploma or equivalent	None	Apprenticeship	★	★		R	I	C	Construction				
<b>Structural Metal Fabricators and Fitters (51-2041):</b> Fabricate, position, align, and fit parts of structural metal products. Shipfitters are included in Layout Workers, Metal and Plastic (51-4192).	145	132	3	11	13	↓	\$16.98 \$22.67	High school diploma or equivalent	None	Moderate-term OJT	★	★		R	C		Maintenance/Operations				
<b>Surveying and Mapping Technicians (17-3031):</b> Perform surveying and mapping duties to obtain data for construction, mapmaking, boundary location, mining, or other purposes. Create maps from source data, such as aerial photography or satellite data, to show topographical features.	281	301	10	25	37	↗	\$18.83 \$23.33	High school diploma or equivalent	None	Moderate-term OJT	★	★		C	R	I	Design/Pre-Construction				
<b>Surveyors (17-1022):</b> Make exact measurements and determine property boundaries. Provide data relevant to the shape, contour, gravitation, location, elevation, or dimension of land or land features on or near the earth's surface for engineering, mapmaking, mining, land evaluation, or construction.	260	280	9	13	24	↘	\$23.31 \$31.59	Bachelor's degree	None	Internship/residency		★	★	R	C	I	Design/Pre-Construction				
<b>Tapers (47-2082):</b> Seal joints between plasterboard or other wallboard to prepare wall surface for painting or papering.	n	n	n	n	n	↘	\$23.40 \$24.39	No formal educational credential	None	Moderate-term OJT	★			R			Construction				
<b>Tile and Stone Setters (47-2044):</b> Apply hard tile, stone, and comparable materials to walls, floors, ceilings, countertops, and roof decks.	69	76	2	4	7	↘	\$20.71 \$26.37	No formal educational credential	None	Long-term OJT	★			R	C	A	Construction				