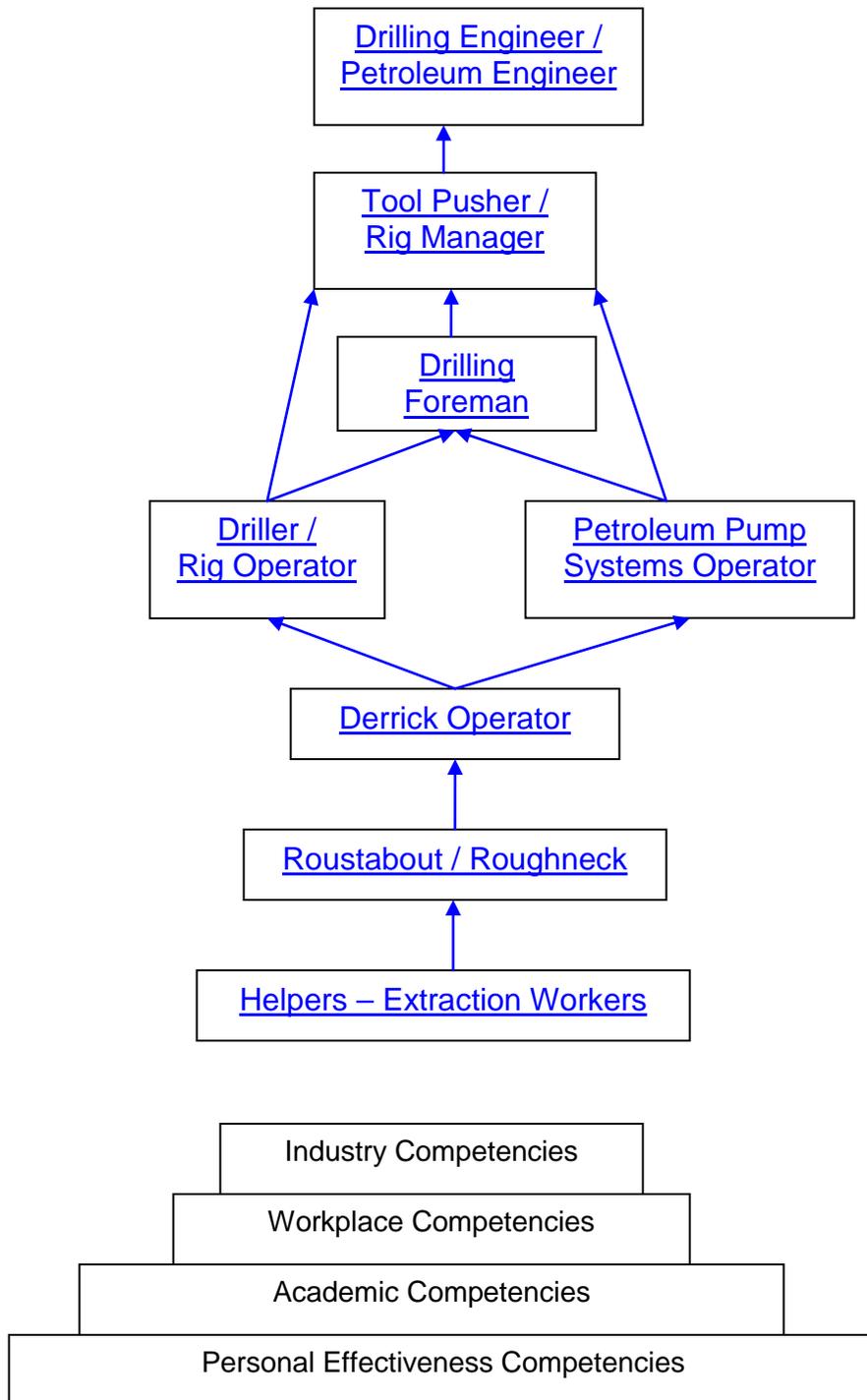


Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Click on a job title to see examples of descriptive information about the job.

Click on a link between job titles to see the critical development experiences needed to move to that job on the pathway.



This is a SAMPLE.

It is intended only as an illustration of a possible career ladder/lattice in the energy industry.

Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Drilling Engineer / Petroleum Engineer
Job Title
Drilling Engineer/Petroleum Engineer
Job Level
Executive-level (Supervisory)
Job Description
Devise methods to improve oil and gas well production and determine the need for new or modified tool designs. Oversee drilling and offer technical advice to achieve economical and satisfactory progress.
Tasks:
<ol style="list-style-type: none"> 1. Assess costs and estimate the production capabilities and economic value of oil and gas wells, to evaluate the economic viability of potential drilling sites. 2. Monitor production rates, and plan rework processes to improve production. 3. Analyze data to recommend placement of wells and supplementary processes to enhance production. 4. Specify and supervise well modification and stimulation programs to maximize oil and gas recovery. 5. Direct and monitor the completion and evaluation of wells, well testing, or well surveys. 6. Assist engineering and other personnel to solve operating problems. 7. Develop plans for oil and gas field drilling, and for product recovery and treatment. 8. Maintain records of drilling and production operations. 9. Confer with scientific, engineering, and technical personnel to resolve design, research, and testing problems. 10. Write technical reports for engineering and management personnel.
Education
This occupation requires a Bachelor's degree.
Workforce Preparation
Employees in this occupation usually need several years of work-related experience, on-the-job training, and/or vocational training.
Work Experience
A minimum of two to four years of work-related skill, knowledge, or experience is needed for this occupation.
Licensure/Certification
None
Salary
\$91,000
Employment Outlook
0-9% over the next 10 years, representing slower than average growth.

[Return to Career Ladder/Lattice Graphic](#)

Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Tool Pusher / Rig Manager
Job Title
Tool Pusher/Rig Manager
Job Level
Management-level (Supervisory)
Job Description
An experienced driller with direct responsibility for all drilling operations on a rig, including drillers and their crews. Operate equipment to increase oil flow from producing wells or to remove stuck pipe, casing, tools, or other obstructions from drilling wells.
Tasks:
<ol style="list-style-type: none"> 1. Observe load variations on strain gauges, mud pumps, and motor pressure indicators; and listen to engines, rotary chains, and other equipment in order to detect faulty operations or unusual well conditions. 2. Confer with other personnel in order to gather information regarding pipe and tool sizes, and borehole conditions in wells. 3. Drive truck-mounted units to well sites. 4. Install pressure-control devices onto well heads. 5. Thread cables through pulleys in derricks and connect hydraulic lines, using hand tools. 6. Start pumps that circulate water, oil, or other fluids through wells, in order to remove sand and other materials obstructing the free flow of oil. 7. Close and seal wells no longer in use. 8. Operate controls that raise derricks and level rigs. 9. Direct drilling crews performing such activities as assembling and connecting pipe, applying weights to drill pipes, and drilling around lodged obstacles. 10. Perforate well casings or sidewalls of boreholes with explosive charges.
Education
This occupation usually requires 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.
Workforce Preparation
Employees need anywhere from a few months to one year of working with experienced employees.
Work Experience
Some previous work-related skill, knowledge, or experience may be helpful.
Licensure/Certification
Possible certifications: Standard First Aid with CRP/AED, Computer Fundamentals & reading Comprehension, Wilderness/Remote Location First Aid, Oil Monitoring Analyst, Heartsaver First Aid
Salary
\$80,000
Employment Outlook
Much slower than average (negative growth)

[Return to Career Ladder/Lattice Graphic](#)

Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Critical Development Experiences: From Tool Pusher / Rig Manager to Drilling Engineer / Petroleum Engineer

The position of Drilling Engineer/Petroleum Engineer requires a Bachelor's degree. Employees in this occupation usually need several years of work-related experience, on-the-job training, and/or vocational training.

1. Analyze worker and production problems and recommend solutions, such as improving production methods or implementing motivational plans.
2. Locate, measure, and mark site locations and placement of structures and equipment, using measuring and marking equipment.
3. Read specifications such as blueprints to determine construction requirements and to plan procedures.
4. Assign work to staff to obtain maximum utilization of personnel.
5. Coordinate the installation, maintenance, and operation of mining and oil field equipment.
6. Develop plans for oil and gas field drilling, and for product recovery and treatment.
7. Monitor production rates, and plan rework processes to improve production.
8. Specify and supervise well modification and stimulation programs to maximize oil and gas recovery.

[Return to Career Ladder/Lattice Graphic](#)

Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Drilling Foreman
Job Title
Drilling Foreman
Job Level
Management-level (Supervisory)
Job Description
<p>Directly supervise and coordinate activities of construction or extraction workers.</p> <p>Tasks:</p> <ol style="list-style-type: none"> 1. Examine and inspect work progress, equipment, and construction sites to verify safety and to ensure that specifications are met. 2. Read specifications such as blueprints to determine construction requirements and to plan procedures. 3. Estimate material and worker requirements to complete jobs. 4. Supervise, coordinate, and schedule the activities of construction or extractive workers. 5. Confer with managerial and technical personnel, other departments, and contractors in order to resolve problems and to coordinate activities. 6. Coordinate work activities with other construction project activities. 7. Order or requisition materials and supplies. 8. Locate, measure, and mark site locations and placement of structures and equipment, using measuring and marking equipment. 9. Record information such as personnel, production, and operational data on specified forms and reports. 10. Assign work to employees, based on material and worker requirements of specific jobs.
Education
Usually requires training in vocational schools, related on-the-job experience, or an Associate's degree. Some may require a Bachelor's degree.
Workforce Preparation
Employees in this occupation usually need one or two years of training involving both on-the-job experience and informal training with experienced workers.
Work Experience
Previous work-related skill, knowledge, or experience is required for these occupations.
Licensure/Certification
Often must have passed a licensing exam. Possible certifications: Standard First Aid with CRP/AED, Computer Fundamentals & reading Comprehension, Wilderness/Remote Location First Aid, Oil Monitoring Analyst, Heartsaver First Aid
Salary
\$53,000
Employment Outlook
10-20% over the next 10 years, representing average growth.

[Return to Career Ladder/Lattice Graphic](#)

This is a SAMPLE.

It is intended only as an illustration of a possible career ladder/lattice in the energy industry.

Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Critical Development Experiences: From Drilling Foreman to Tool Pusher / Rig Manager

The position of Tool Pusher/Rig Manager usually requires 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 need anywhere from a few months to one year of working with experienced employees.

1. Analyze worker and production problems and recommend solutions, such as improving production methods or implementing motivational plans.
2. Confer with managerial and technical personnel, other departments, and contractors in order to resolve problems and to coordinate activities.
3. Examine and inspect work progress, equipment, and construction sites to verify safety and to ensure that specifications are met.
4. Supervise, coordinate, and schedule the activities of construction or extractive workers.
5. Direct drilling crews performing such activities as assembling and connecting pipe, applying weights to drill pipes, and drilling around lodged obstacles.
6. Plan fishing methods and select tools for removing obstacles, such as liners, broken casing, screens, and drill pipe, from wells.

[Return to Career Ladder/Lattice Graphic](#)

Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Petroleum Pump Systems Operator
Job Title
Petroleum Pump Systems Operator
Job Level
Mid-level (Non-supervisory)
Job Description
Control the operation of petroleum refining or processing units. May specialize in controlling manifold and pumping systems, gauging or testing oil in storage tanks, or regulating the flow of oil into pipelines. Tasks:
<ol style="list-style-type: none"> 1. Calculate test result values, using standard formulas. 2. Collect product samples by turning bleeder valves, or by lowering containers into tanks to obtain oil samples. 3. Control or operate manifold and pumping systems to circulate liquids through a petroleum refinery. 4. Monitor process indicators, instruments, gauges, and meters in order to detect and report any possible problems. 5. Operate control panels to coordinate and regulate process variables such as temperature and pressure, and to direct product flow rate, according to process schedules. 6. Perform tests to check the qualities and grades of products, such as assessing levels of bottom sediment, water, and foreign materials in oil samples, using centrifugal testers. 7. Plan movement of products through lines to processing, storage, and shipping units, utilizing knowledge of system interconnections and capacities. 8. Read and analyze specifications, schedules, logs, test results, and laboratory recommendations to determine how to set equipment controls to produce the required qualities and quantities of products.
Education
Usually requires training in vocational schools, related on-the-job experience, or an Associate's degree. Some may require a Bachelor's degree.
Workforce Preparation
Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers.
Work Experience
Previous work-related skill, knowledge, or experience is required for these occupations.
Licensure/Certification
Possible certifications: Standard First Aid with CRP/AED, Computer Fundamentals & reading Comprehension, Wilderness/Remote Location First Aid, Oil Monitoring Analyst, Heartsaver First Aid
Salary
\$45,000
Employment Outlook
Much slower than average (negative growth)

[Return to Career Ladder/Lattice Graphic](#)

This is a SAMPLE.

It is intended only as an illustration of a possible career ladder/lattice in the energy industry.

Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Critical Development Experiences: From Petroleum Pump Systems Operator to Drilling Foreman

The position of Drilling Foreman usually requires training in vocational schools, related on-the-job experience, or an Associate's degree. Some positions may require a Bachelor's degree. Employees in this occupation usually need one or two years of training involving both on-the-job experience and informal training with experienced workers. Previous work-related skill, knowledge, or experience is required for these occupations.

1. Patrol units to monitor the amount of oil in storage tanks, and to verify that activities and operations are safe, efficient, and in compliance with regulations.
2. Plan movement of products through lines to processing, storage, and shipping units, utilizing knowledge of system interconnections and capacities.
3. Read and analyze specifications, schedules, logs, test results, and laboratory recommendations to determine how to set equipment controls to produce the required qualities and quantities of products.
4. Record and compile operating data, instrument readings, documentation, and results of laboratory analyses.
5. Synchronize activities with other pumphouses to ensure a continuous flow of products and a minimum of contamination between products.
6. Coordinate work activities with other construction project activities.

Critical Development Experiences: From Petroleum Pump Systems Operator to Tool Pusher / Rig Manager

The position of Tool Pusher/Rig Manager usually requires 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 need anywhere from a few months to one year of working with experienced employees.

1. Patrol units to monitor the amount of oil in storage tanks, and to verify that activities and operations are safe, efficient, and in compliance with regulations.
2. Read and analyze specifications, schedules, logs, test results, and laboratory recommendations to determine how to set equipment controls to produce the required qualities and quantities of products.
3. Record and compile operating data, instrument readings, documentation, and results of laboratory analyses.
4. Synchronize activities with other pump houses to ensure a continuous flow of products and a minimum of contamination between products.
5. Examine and inspect work progress, equipment, and construction sites to verify safety and to ensure that specifications are met.
6. Record information such as personnel, production, and operational data on specified forms and reports.
7. Train workers in construction methods, operation of equipment, safety procedures, and company policies.

[Return to Career Ladder/Lattice Graphic](#)

Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Driller / Rig Operator
Job Title
Driller/Rig Operator
Job Level
Mid-level (Non-supervisory)
Job Description
<p>Set up or operate a variety of drills to remove petroleum products from the earth and to find and remove core samples for testing during oil and gas exploration. Tasks:</p> <ol style="list-style-type: none"> 1. Train crews, and introduce procedures to make drill work more safe and effective. 2. Observe pressure gauge and move throttles and levers in order to control the speed of rotary tables, and to regulate pressure of tools at bottoms of boreholes. 3. Count sections of drill rod in order to determine depths of boreholes. 4. Push levers and brake pedals in order to control gasoline, diesel, electric, or steam draw works that lower and raise drill pipes and casings in and out of wells. 5. Connect sections of drill pipe, using hand tools and powered wrenches and tongs. 6. Maintain records of footage drilled, location and nature of strata penetrated, materials and tools used, services rendered, and time required. 7. Maintain and adjust machinery in order to ensure proper performance. 8. Start and examine operation of slush pumps in order to ensure circulation and consistency of drilling fluid or mud in well. 9. Locate and recover lost or broken bits, casings, and drill pipes from wells, using special tools. 10. Weigh clay, and mix with water and chemicals to make drilling mud.
Education
This occupation usually requires 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.
Workforce Preparation
Employees in this occupation need anywhere from a few months to one year of working with experienced employees.
Work Experience
Some previous work-related skill, knowledge, or experience may be helpful in this occupation, but usually is not needed.
Licensure/Certification
Possible certifications: Standard First Aid with CRP/AED, Computer Fundamentals & reading Comprehension, Wilderness/Remote Location First Aid, Oil Monitoring Analyst, Heartsaver First Aid
Salary
\$38,000
Employment Outlook
0-9% over the next 10 years, representing slower than average growth.

[Return to Career Ladder/Lattice Graphic](#)

This is a SAMPLE.

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Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Critical Development Experiences: From Driller / Rig Operator to Drilling Foreman

The position of Drilling Foreman usually requires training in vocational schools, related on-the-job experience, or an Associate's degree. Some positions may require a Bachelor's degree. Employees in this occupation usually need one or two years of training involving both on-the-job experience and informal training with experienced workers. Previous work-related skill, knowledge, or experience is required for these occupations.

1. Direct rig crews in drilling and other activities, such as setting up rigs and completing or servicing wells.
2. Monitor progress of drilling operations, and select and change drill bits according to the nature of strata, using hand tools.
3. Observe pressure gauge and move throttles and levers in order to control the speed of rotary tables, and to regulate pressure of tools at bottoms of boreholes.
4. Examine and inspect work progress, equipment, and construction sites to verify safety and to ensure that specifications are met.
5. Locate, measure, and mark site locations and placement of structures and equipment, using measuring and marking equipment.
6. Train workers in construction methods, operation of equipment, safety procedures, and company policies.

Critical Development Experiences: From Driller / Rig Operator to Tool Pusher / Rig Manager

The position of Tool Pusher/Rig Manager usually requires 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 need anywhere from a few months to one year of working with experienced employees.

1. Direct rig crews in drilling and other activities, such as setting up rigs and completing or servicing wells.
2. Monitor progress of drilling operations, and select and change drill bits according to the nature of strata, using hand tools.
3. Train crews, and introduce procedures to make drill work more safe and effective.
4. Confer with other personnel in order to gather information regarding pipe and tool sizes, and borehole conditions in wells.
5. Direct lowering of specialized equipment to point of obstruction, and push switches or pull levers in order to back-off or sever pipes by chemical or explosive action.
6. Plan fishing methods and select tools for removing obstacles, such as liners, broken casing, screens, and drill pipe, from wells.
7. Read specifications such as blueprints to determine construction requirements and to plan procedures.

[Return to Career Ladder/Lattice Graphic](#)

Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Derrick Operator
Job Title
Derrick Operator
Job Level
Mid-level (Supervisory)
Job Description
Rig derrick equipment and operate pumps to circulate mud through drill hole. Tasks: <ol style="list-style-type: none"> 1. Inspect derricks, or order their inspection, prior to being raised or lowered. 2. Inspect derricks for flaws, and clean and oil derricks in order to maintain proper working conditions. 3. Control the viscosity and weight of the drilling fluid. 4. Repair pumps, mud tanks, and related equipment. 5. Set and bolt crown blocks to posts at tops of derricks. 6. Listen to mud pumps and check regularly for vibration and other problems, in order to ensure that rig pumps and drilling mud systems are working properly. 7. Start pumps that circulate mud through drill pipes and boreholes to cool drill bits and flush out drill-cuttings. 8. Position and align derrick elements, using harnesses and platform climbing devices. 9. Supervise crew members, and provide assistance in training them. 10. Guide lengths of pipe into and out of elevators.
Education
This occupation may require a high school diploma or GED certificate. Some may require a formal training course to obtain a license.
Workforce Preparation
Employees in this occupation need anywhere from a few days to a few months of training.
Work Experience
No previous work-related skill, knowledge, or experience is needed for this occupation.
Licensure/Certification
Some may require a formal training course to obtain a license. Certification varies. Possible certifications: Standard First Aid with CRP/AED, Computer Fundamentals & Reading Comprehension, Wilderness/Remote Location First Aid, Oil Monitoring Analyst, Heartsaver First Aid.
Salary
\$29,000
Employment Outlook
Much slower than average (negative growth)

[Return to Career Ladder/Lattice Graphic](#)

This is a SAMPLE.

It is intended only as an illustration of a possible career ladder/lattice in the energy industry.

Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Critical Development Experiences: From Derrick Operator to Driller / Rig Operator

The position of Driller/Rig Operator usually requires 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 this occupation need anywhere from a few months to one year of working with experienced employees.

1. Inspect derricks for flaws, and clean and oil derricks in order to maintain proper working conditions.
2. Listen to mud pumps and check regularly for vibration and other problems, in order to ensure that rig pumps and drilling mud systems are working properly.
3. Count sections of drill rod in order to determine depths of boreholes.
4. Dig holes, set forms, and mix and pour concrete, for foundations of steel or wooden derricks.
5. Locate and recover lost or broken bits, casings, and drill pipes from wells, using special tools.
6. Plug observation wells, and restore sites.
7. Repair or replace defective parts of machinery, such as rotary drill rigs, water trucks, air compressors, and pumps, using hand tools.

Critical Development Experiences: From Derrick Operator to Petroleum Pump Systems Operator

The position of Petroleum Pump Systems Operator usually requires training in vocational schools, related on-the-job experience, or an Associate's degree. Some may require a Bachelor's degree. Employees in this occupation usually need one or two years of training involving both on-the-job experience and informal training with experienced workers.

1. Listen to mud pumps and check regularly for vibration and other problems, in order to ensure that rig pumps and drilling mud systems are working properly.
2. Repair pumps, mud tanks, and related equipment.
3. Steady pipes during connection to or disconnection from drill or casing strings.
4. Collect product samples by turning bleeder valves, or by lowering containers into tanks to obtain oil samples.
5. Start pumps and open valves or use automated equipment to regulate the flow of oil in pipelines and into and out of tanks.
6. Verify that incoming and outgoing products are moving through the correct meters, and that meters are working properly.

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Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Roustabout / Roughneck
Job Title
Roustabout/Roughneck
Job Level
Entry-level (Non-supervisory)
Job Description
Assemble or repair oil field equipment using hand and power tools. Perform other tasks as needed. General purpose laborer working on a drill site. Handles bulk supplies and assists in most jobs not directly connected with drilling.
Tasks:
<ol style="list-style-type: none"> 1. Clean up spilled oil by bailing it into barrels. 2. Unscrew or tighten pipes, casing, tubing, and pump rods, using hand and power wrenches and tongs. 3. Bolt together pump and engine parts. 4. Walk flow lines to locate leaks, using electronic detectors and making visual inspections. 5. Move pipes to and from trucks, using truck winches and motorized lifts, or by hand. 6. Dismantle and repair oil field machinery, boilers, and steam engine parts, using hand tools and power tools. 7. Dig drainage ditches around wells and storage tanks. 8. Keep pipe deck and main deck areas clean and tidy. 9. Guide cranes to move loads about decks. 10. Supply equipment to rig floors as requested, and provide assistance to roughnecks.
Education
This occupation usually requires a high school diploma and may require some vocational training or job-related course work.
Workforce Preparation
Employees in this occupation need anywhere from a few months to one year of working with experienced employees.
Work Experience
Some previous work-related skill, knowledge, or experience may be helpful, but usually is not needed.
Licensure/Certification
Possible certifications: Standard First Aid with CRP/AED, Computer Fundamentals & reading Comprehension, Wilderness/Remote Location First Aid, Oil Monitoring Analyst, Heartsaver First Aid
Salary
\$24,000
Employment Outlook
0-9% over the next 10 years, representing slower than average growth.

[Return to Career Ladder/Lattice Graphic](#)

This is a SAMPLE.

It is intended only as an illustration of a possible career ladder/lattice in the energy industry.

Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Critical Development Experiences: From Roustabout / Roughneck to Derrick Operator

The position of Derrick Operator may require a high school diploma or GED certificate. Some positions may require a formal training course to obtain a license. Employees in this occupation need anywhere from a few days to a few months of training.

1. Dig holes, set forms, and mix and pour concrete into forms to make foundations for wood or steel derricks.
2. Dismantle and repair oil field machinery, boilers, and steam engine parts, using hand tools and power tools.
3. Walk flow lines to locate leaks, using electronic detectors and making visual inspections.
4. Inspect derricks for flaws, and clean and oil derricks in order to maintain proper working conditions.
5. Start pumps that circulate mud through drill pipes and boreholes to cool drill bits and flush out drill-cuttings.
6. Steady pipes during connection to or disconnection from drill or casing strings.
7. Weigh clay, and mix with water and chemicals in order to make drilling mud, using portable mixers.

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Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Helpers – Extraction Workers
Job Title
Helper – Extraction Workers
Job Level
Entry-level (Non-supervisory)
Job Description
<p>Help extraction craft workers, such as earth drillers, blasters and explosives workers, derrick operators, and mining machine operators, by performing duties of lesser skill. Duties include supplying equipment or cleaning work area.</p> <p>Tasks:</p> <ol style="list-style-type: none"> 1. Clean and prepare sites for excavation or boring. 2. Clean up work areas and remove debris after extraction activities are complete. 3. Dismantle extracting and boring equipment used for excavation, using hand tools. 4. Drive moving equipment in order to transport materials and parts to excavation sites. 5. Load materials into well holes or into equipment, using hand tools. 6. Observe and monitor equipment operation during the extraction process in order to detect any problems. 7. Organize materials in order to prepare for use. 8. Provide assistance to extraction craft workers such as earth drillers and derrick operators. 9. Set up and adjust equipment used to excavate geological materials. 10. Signal workers to start geological material extraction or boring.
Education
This occupation may require a high school diploma or GED certificate. Some may require a formal training course to obtain a license.
Workforce Preparation
Employees in this occupation need anywhere from a few days to a few months of training.
Work Experience
No previous work-related skill, knowledge, or experience is needed for these occupations.
Licensure/Certification
Some may require a formal training course to obtain a license. Possible certifications: Standard First Aid with CRP/AED, Computer Fundamentals & reading Comprehension, Wilderness/Remote Location First Aid, Oil Monitoring Analyst, Heartsaver First Aid
Salary
\$22,000
Employment Outlook
0-9% over the next 10 years, representing slower than average growth.

[Return to Career Ladder/Lattice Graphic](#)

Sample Career Ladder/Lattice for Energy (Petroleum Sector)

Critical Development Experiences: From Helpers-Extraction Workers to Roustabout / Roughneck

The position of Roustabout/Roughneck usually requires 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 this occupation need anywhere from a few months to one year of working with experienced employees.

1. Collect and examine geological matter, using hand tools and testing devices.
2. Dismantle extracting and boring equipment used for excavation, using hand tools.
3. Load materials into well holes or into equipment, using hand tools.
4. Observe and monitor equipment operation during the extraction process in order to detect any problems.
5. Repair and maintain automotive and drilling equipment, using hand tools.
6. Dig drainage ditches around wells and storage tanks.

[Return to Career Ladder/Lattice Graphic](#)