

1 Define “engineering”

What do engineers do? Write a definition:

Select an item from the left column and match it with an engineer in the right column. Actually, there is more than one answer for this matching game—lots of engineers are needed to work in many different areas connected to natural gas and oil production.

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| 1. Machinery, engines | a. Civil engineer |
| 2. Bridges, roads | b. Electrical engineer |
| 3. Land use—site for a drilling rig | c. Petroleum engineer |
| 4. Distillation process at an oil refinery | d. Mechanical engineer |
| 5. Water heater in your house | e. Chemical engineer |
| 6. Natural gas and oil rig | f. Environmental engineers |

Investigate the natural gas and oil industry by watching the videos in the folder called Activity 1 Videos at OOGEEP.org. Write a brief explanation about each of these areas. What role do you think engineers play in each of these areas?

Natural gas and oil industry	Brief explanation	What do engineers do in this area?
Formation		
Migration and trapping		
Exploration		
Drilling and well stimulation		
Producing and transporting		
Refining and processing		
Petrochemicals and products		