



## Nature and Dynamics of Geothermal Systems

### MODULE

#### About the Skill Module

This eLearning course discusses heat transfer mechanisms in Earth's crust, geological formation properties, and the development of geothermal systems.

#### Target Audience

Professionals seeking to acquire fundamental knowledge in geothermal energy and its primary applications (awareness level) will find this program particularly valuable. Given that numerous skills used in the oil and gas industry, such as exploration, drilling, and reservoir engineering, directly translate to geothermal projects, this program will be especially beneficial for professionals in these fields.

#### You Will Learn

- The three primary mechanisms of heat transfer: conduction, convection, and radiation
- How these mechanisms operate within the Earth and influence geothermal gradients in various tectonic contexts
- How different geological layers have varied thermal properties
- The importance of porosity and permeability in the characterization of potential geothermal reservoirs
- The methods used to identify potential geothermal plays, including geological surveys, geophysical studies, and exploratory drilling

#### Course Content

- Geological Control of Geothermal Activity
- Crystalline Rock Properties
- Exploration of Geothermal Resources

#### Product Details

Categories: [Energy Transition](#)

Disciplines: [Geothermal](#)

Levels: [Basic](#)

Product Type: Individual Skill Module

9/1/24, 12:19 AM

Nature and Dynamics of Geothermal Systems

Format: On-Demand

Duration: 3.5 hours (approx.)

**\$395.00**