

Extending Equity into the Digital Workforce

Why IT- Oil Rig Industry

(Motor mechanic, Pump Mechanic, Rig Mechanic, Floor hand, Roustabout, or Roughneck) Students start their careers on oil rigs, IT courses provide a foundation for transitioning to other technology-related roles in the future, both within and outside the oil and gas industry.

1 Increasing Automation

Many aspects of oil rig operations are becoming automated, requiring knowledge of IT systems to operate and maintain.

2 Data Analysis

IT courses can teach skills in data analysis, which are valuable for interpreting data collected from rig sensors and equipment.

3 Safety Systems

IT knowledge is crucial for understanding and maintaining safety systems, such as alarms and emergency shutdown procedures.

4 Communication Technology

Learning about communication systems helps in understanding and troubleshooting rig communication networks, including satellite and radio systems.

5 Cybersecurity Awareness

Given the increasing threat of cyber-attacks on oil rigs, IT courses can provide knowledge on cybersecurity practices to protect rig systems.

6 Efficiency Improvement

IT skills can contribute to improving operational efficiency through the implementation of software solutions for optimizing processes.

7 Environmental Monitoring

Many rigs require constant monitoring of environmental factors, which often involves IT systems for data collection and analysis.

8 Regulatory Compliance

Understanding IT systems helps in ensuring compliance with industry regulations related to data management and reporting.

9 Resource Management

IT courses can provide insights into resource management systems used on rigs, including energy consumption tracking and optimization.

10 Emergency Response

IT skills are valuable during emergency situations for quickly accessing and analyzing critical data to make informed decisions.

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