

LABOUR MARKET INFORMATION

OFFSHORE



WHAT IS THE OFFSHORE INDUSTRY?

Offshore careers involve working in industries located at sea, often on oil rigs, wind farms, or other maritime structures. These roles cover a wide range of jobs, including engineering, drilling, maintenance, and safety operations. Offshore workers typically work on a rotational basis, spending weeks at sea followed by time off. The work environment is demanding but offers competitive pay and benefits.

Many offshore careers are tied to the energy sector, particularly oil, gas, and renewable energy like offshore wind farms. These jobs are vital for energy production and are supported by advancements in marine technology, safety, and environmental protection.

DID YOU KNOW...

The offshore industry in Tees Valley, UK, is rapidly growing due to renewable energy projects like offshore wind? Major developments, such as the **SeAH Wind factory at Teesworks**, are making the area a key player in the UK's green energy plans. The factory is creating hundreds of jobs, especially in manufacturing and construction.



The Dogger Bank wind farm is expected to generate significant employment opportunities for the local population, particularly in the **renewable energy sector**.

Approx...

10,000

people work in offshore related jobs that include **engineering to logistics and maintenance**.



While the focus is shifting towards renewables, there are **still opportunities in offshore oil and gas extraction, particularly in operations, safety, and engineering roles**.

Expected...

8,000

more jobs **by 2030** across Tees Valley. This includes roles in **offshore construction, energy production, maintenance, and environmental management**.

OFFSHORE

TEES
VALLEY

WHAT JOBS COULD YOU DO?



**CRANE
OPERATOR**



DRILLER



WELDER



ROUSTABOUT



GEOSCIENTIST



**MARINE
ENGINEER**



**WIND
TURBINE
TECHNICIAN**



**ENVIRONMENTAL
CONSULTANT**



**ELECTRICAL
ENGINEER**

WHERE ARE THE JOBS MOST NEEDED?



**OFFSHORE
WIND
ENERGY**



**SUBSEA
ENGINEERING**



**OFFSHORE
OIL & GAS**



**LOGISTICS &
SUPPORT
SERVICES**



**HEALTH &
SAFETY
MANAGEMENT**



**ENVIRONMENTAL
MONITORING**



**MARINE
OPERATIONS**



**MAINTENANCE
& REPAIRS**

LOCAL EMPLOYERS INCLUDE...



**Materials
Processing
Institute**

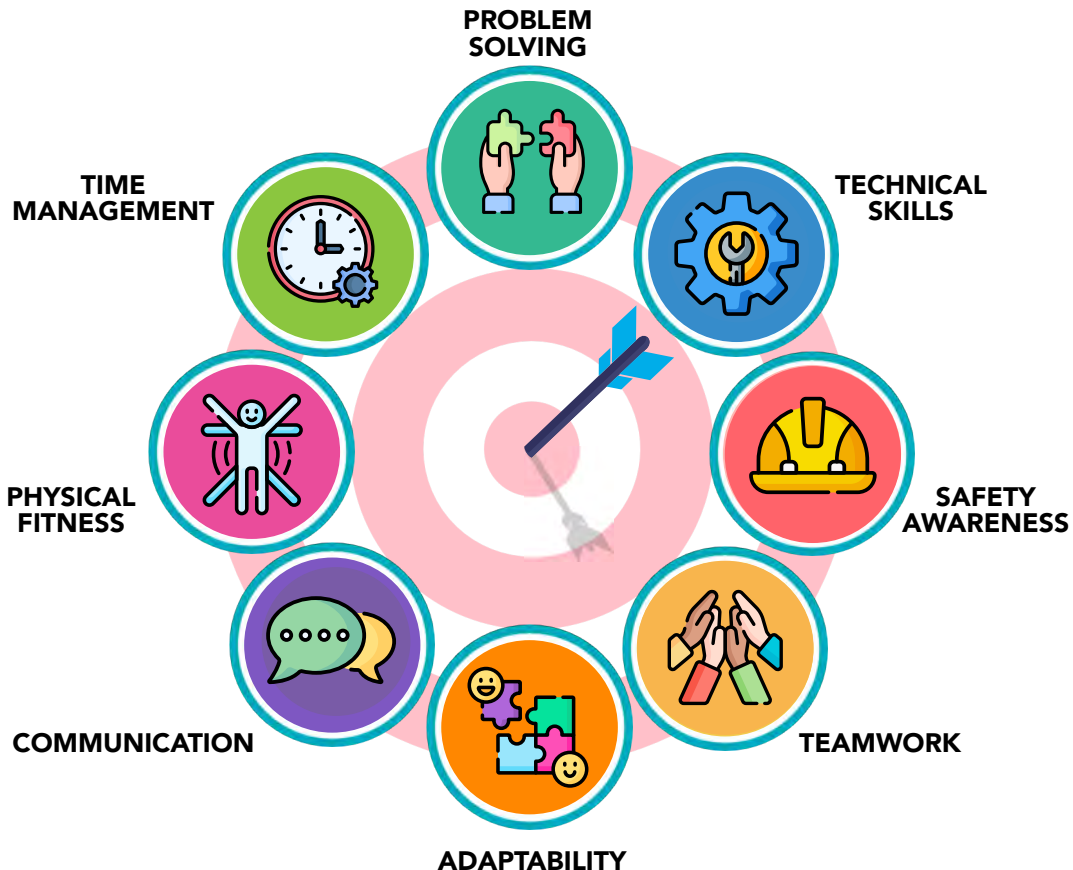


**TEES
VALLEY**

OFFSHORE

WHAT SKILLS CAN HELP YOU?

Offshore jobs need specialised skills, and adapting your expertise is crucial for success.



SKILLS IN ACTION



PROBLEM SOLVING

Troubleshooting equipment malfunctions while at sea.



TECHNICAL SKILLS

Operating complex machinery on an oil rig or wind turbine.



SAFETY AWARENESS

Following strict safety procedures to prevent accidents on the platform.



TEAMWORK

Coordinating with team members to complete tasks efficiently.



ADAPTABILITY

Adjusting to changing weather conditions and work environments.



COMMUNICATION

Sharing important information clearly with your team during shifts.



PHYSICAL FITNESS

Handling physically demanding tasks like heavy lifting or working in harsh environments.



TIME MANAGEMENT

Balancing work and rest periods to maintain productivity during work shifts.

WHAT QUALIFICATIONS CAN HELP YOUR CAREER?

GCSE

SECONDARY SCHOOL

Mathematics: Essential for calculations, engineering and problem-solving.

Physics: Key to understanding energy, forces and mechanical systems used in offshore work.

Geography: Relevant for understanding oceanography, weather systems and environmental impact.

Engineering (if available): Introduces principles of engineering and technical skills.

IT/Computer Science: Useful for technical roles involving data, communication and remote systems.

English: Important for communication, reporting and safety protocols.

FURTHER EDUCATION



A-LEVELS

Mathematics: Strengthens analytical skills required for engineering and technical roles.

Physics: Focuses on energy systems, mechanics, and materials science relevant to offshore work.

Engineering: Covers principles of mechanical, civil and electrical engineering.

Geography: Study of environmental impact, oceanography, and climate relevant for offshore roles in energy and marine sectors.

VOCATIONAL COURSES

Engineering: Provides practical skills in mechanical, electrical and civil engineering.

Marine Engineering: Focuses on shipbuilding, maritime technology and systems used offshore.

Construction and the Built Environment: Offers insights into structural engineering, crucial for offshore platforms and infrastructure.

T-LEVELS

Engineering and Manufacturing: Develops skills for working with offshore equipment.

Construction: Focuses on civil engineering for offshore structures.

Digital Support Services: Covers IT, communication and remote systems for offshore operations.

SCAN OR CLICK
THE QR CODE
TO EXPLORE
THE DIFFERENT
PATHWAYS





APPRENTICESHIPS

TEES
VALLEY

Offshore Wind Turbine Technician Apprenticeship:

Learn to install, maintain, and repair offshore wind turbines with a focus on safety and efficiency.

Click or Scan the QR code to visit the IfATE Occupational Maps to explore the different Apprenticeships available

Subsea Engineering Apprenticeship: Develop skills in underwater engineering, maintaining subsea pipelines and working with remotely operated vehicles (ROVs).

Roustabout Apprenticeship: Start an offshore career with training in basic maintenance, safety protocols and support tasks on oil rigs or platforms.

Marine Engineering Apprenticeship: Gain hands-on experience in maintaining and operating marine engines and systems on offshore vessels.

Hydrographic Surveying Apprenticeship: Learn to map and survey underwater terrain, supporting offshore construction and resource exploration.



HIGHER EDUCATION



UNDERGRADUATE DEGREE

Marine Engineering (BEng/BSc):

Focus on marine vessels and offshore systems.

Offshore Engineering (BEng/BSc):

Learn to design, build and maintain offshore structures.

Petroleum Engineering (BEng/BSc):

Specialise in oil and gas extraction.

Renewable Energy (BEng/BSc): Work with wind, wave and tidal energy.

PROFESSIONAL QUALIFICATIONS

Chartered Engineer (CEng): Professional status for engineers in offshore fields.

STCW Certification: Standards for seafarers in marine and offshore roles.

OPITO Certification: Safety and technical training for offshore oil and gas.

GWO Certification: Safety and skills for offshore wind turbine work.

Diving Certification: Required for underwater inspection and repair.

POSTGRADUATE DEGREE

Offshore Engineering (MSc): Focus on infrastructure and risk management.

Marine Engineering (MSc):

Advanced maritime systems and ship design.

Renewable Energy (MSc): Specialise in sustainable offshore energy systems.

Subsea Engineering (MSc): Explore underwater technology and pipeline systems.

MORE INFORMATION

Scan or click on the QR codes to become more informed about the different jobs and education and training options available to you.

TEES VALLEY JOBS

Explore graduate roles, apprenticeships, or volunteering opportunities.

SCAN ME



NATIONAL CAREERS SERVICE

Explore over 750 different careers. Find out what a job involves and if it's right for you.

SCAN ME



CAREERS AT SEA

Explore the opportunities and pathways available in careers at sea.

SCAN ME



TEES VALLEY KEY SECTORS

Explore what's happening across other sectors in the Tees Valley region.

SCAN ME



WHAT NEXT?

TEES
VALLEY

Name:

Date:

I would like to be:

The reasons I chose this are:

**Qualifications and training
required:**

Skills I have:

Skills I need to develop:

My next steps are:

Reviewing my progress: