



Unlocking the potential of training for an empowered future

As wind energy continues to gain traction as a viable alternative to traditional fossil fuels, the importance of training within the industry cannot be overstated. From ensuring safety standards to optimizing efficiency and fostering innovation, training plays a pivotal role in shaping the present and future of wind power. Here, Wind-ON takes a closer look at the importance of training to empower a workforce that will drive the transition to more sustainable, reliable and affordable energy systems.

Safety first

Safety is paramount in any industry, but it takes on added significance in the high-stakes environment of wind energy. Working with towering turbines and intricate machinery demands rigorous adherence to safety protocols. Proper training equips workers with the knowledge and skills needed to navigate potential hazards, mitigate risks, and respond effectively in emergency situations. From understanding the intricacies of turbine operation to implementing best practices for maintenance and repair, comprehensive training programs such as those delivered by Wind-ON, lay the foundation for a culture of safety that protects both workers and assets.

Optimizing efficiency

Efficiency lies at the heart of sustainable energy production, and training is instrumental in maximizing the output of wind farms. Through specialized training, technicians learn how to fine-tune turbine performance, diagnose issues, and implement solutions that enhance operational efficiency. Whether it's optimizing blade angles for maximum energy capture or leveraging data analytics to streamline maintenance schedules, trained professionals play a crucial role in maximizing the productivity and longevity of wind energy infrastructure.

Wind-ON's borescope inspection training package is a case in point. The advanced level training is designed for individuals conducting on-site inspections and generating reports. The training gives participants the skills necessary to interpret drawings and accurately locate bearing positions for inspections.

The advanced level training takes 28 hours to complete, with candidates covering aspects of borescope inspection including basic technical drawings, planetary stage structure, helical stage structure, an introduction to the endoscopy device, guiding tube methods and inspection reporting.

A basic level package is also available, designed for those who wish to monitor and comprehend the structure of gearboxes and internal components. Following the training which is completed in 20 hours, participants will have the skills needed to interpret reports and grasp the positions of internal components.

A new approach

One distinguishing feature of Wind-ON's training approach is the use of a highly innovative simulation setup. The company, headquartered in Turkey, has developed a classroom environment that replicates real-world operations on a 1:50 scale. This scaled construction area includes a crane and turbine, allowing trainees to gain hands-on experience in a controlled setting.

Leading the charge at Wind-ON is Nihat Tonguc, the owner and principal instructor. With over a decade of expertise in Major Operations and Borescope Inspections, he brings a wealth of experience to the table. His background includes significant roles at industry giants such as Vestas and General Electric, where he played instrumental roles in operational activities.

Notably, Tonguc holds the distinction of being the first inspector in Turkey and has conducted training sessions for site teams across various countries worldwide. Through Wind-ON's training programs, he aims to provide individuals with the skills and insights necessary to excel in wind energy operations. By leveraging innovative simulation techniques and drawing on real-world experience, Wind-ON seeks to empower trainees and contribute to the advancement of the renewable energy sector on a global scale.

Staying ahead of the curve

The wind energy industry is constantly evolving, driven by technological advancements and shifting market dynamics. Training programs like those from Wind-ON provide professionals with the opportunity to stay abreast of the latest developments, whether it's mastering cutting-edge turbine designs or integrating

renewable energy systems into existing power grids.

By fostering a culture of continuous learning and innovation, training ensures that the industry remains at the forefront of sustainable energy solutions, poised to meet the challenges of tomorrow head-on.

Driving innovation

Innovation is the lifeblood of progress, and training serves as a catalyst for driving innovation within the wind energy sector. By equipping professionals with the skills and knowledge needed to push the boundaries of what's possible, training programs spark creativity and ingenuity. From exploring new materials for turbine construction to developing novel approaches to energy storage and transmission, trained experts are at the vanguard of innovation, pushing the envelope to unlock the full potential of wind power.

Meeting global demand

With increasing emphasis on decarbonization and combating climate change, the demand for clean energy sources like wind power continues to soar. Meeting this global demand requires a skilled workforce capable of designing, building, and maintaining wind energy infrastructure on a massive scale.



Training programs play a pivotal role in cultivating this workforce, empowering individuals with the expertise needed to drive the expansion of wind energy projects around the world.

Positive client feedback

Comments from recent candidates on the Wind-ON borescope inspection training is testament to the success of the programme. One trainee recently commented: 'Our company recently asked Nihat Tonguc at Wind-ON to provide his expertise in borescope inspection training, and we were extremely impressed with both the quality of instruction and the knowledge he provided.'

'He is an expert in his field and his practical training with the device and a real gearbox was especially helpful in understanding how to properly inspect a wind turbine gearbox using a borescope.'

'He taught our employee the fundamentals of Borescope Inspection, from reading the drawings to understanding how the gearbox works and how to get with the probe to the various inspection points. He also walked our employee through all the necessary steps to make an accurate inspection report. This was instrumental in helping our colleague apply the knowledge he gained from the course in his job.'

'After the training, our employee has a better understanding of wind turbine gearbox inspections and is confident that he can use his knowledge in work. We highly recommend



Wind-ON borescope inspection training to anyone seeking to improve their skills in this field. Its expertise will undoubtedly be a valuable asset to any company seeking to enhance its borescope inspection practices.'

Conclusion

In the transition toward a sustainable energy future, the wind energy industry occupies a central position, offering a clean and abundant source of power. Yet, realizing the full potential of wind power hinges on the

presence of a skilled and knowledgeable workforce. Training serves as the linchpin of this workforce, providing the expertise needed to ensure safety, optimize efficiency, foster innovation, and meet the growing global demand for renewable energy.

As the winds of change continue to propel us toward a greener tomorrow, investment in training will remain essential for harnessing the full power of wind energy.

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