360 DRONES

Germany

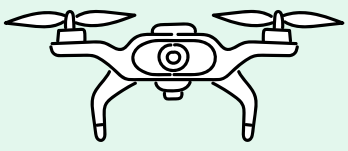
INFOGRAPHICS

DRONES360

Fostering innovation and Better skills match with the GREEN and DIGITAL sectors through the integration of emerging technologies (DRONES, VR, AR)in VET

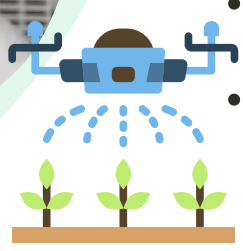
Introduction

As part of the site visits in Germany, two key institutions were explored for their use of drone technology in the green sector. At DroneMasters Academy, partner and Advisor of the company shared insights on sustainability-focused applications and training. At Dronesperhour GmbH, founder and trainer provided a practical view on drone services, VET, and industry challenges.Their input highlights key trends, educational needs, and green-sector opportunities.



Pioneering Drone Technology for Sustainability

- Drones replacing helicopters for a lower carbon footprint
- Pollution Detection
- Inspection services for windmills and solar panels
- Infrastructure and pipeline inspection



VET Programs & Job Opportunities in the Drone Sector

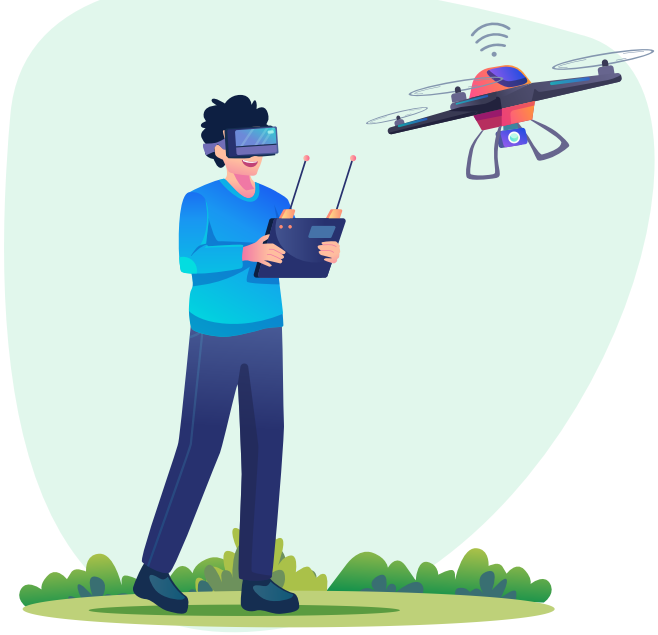
- Learning Drone Technology
- Piloting
- Data Gathering
- Analysis for jobs in the green industry
- Integrate drones into existing training
- Potential job for Solar and wind energy sector
- Infrastructure inspection

Enhancing VET Institutions

- Need for Sensor Analytics
- Data Processing
- Training from Certified Organizations
- Training should be Application-Driven
- Build drone training around specific real-world use cases
- Structured public-private partnership

Essential Skills for Success in the Drone Industry

- Flight Proficiency (150-200 hours)
- Regulation Knowledge
- Data Analytics
- Being reliable, responsible, and safety-focused
- Strong knowledge of regulations
- Technical proficiency (software, operations)
- Adaptability to work across industries



Looking Ahead: Exciting Drone Innovations

- AI-based automation
- Anomaly detection
- Enhanced decision-making with drone data
- Infrastructure inspection
- Using Digital Twins as a service
- AI + Robotics are the future

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