

WorldSkills UK Assistant Training Manager – Specialist Skills

Please review these in tandem with application guidance in the Assistant Training Managing information pack.

WorldSkills Skill No. & Skill Name	Specialist Technical Skills
62. Renewable Energy	<p>An Assistant Training Manager for the WorldSkills competition in Renewable Energy should possess a broad and practical understanding of renewable energy systems, underpinned by strong technical expertise in both system design and hands-on application. The following specialist technical skills are essential:</p> <p>Essential:</p> <ul style="list-style-type: none">• practical knowledge and/or experience in solar photovoltaic (PV) system installation, including on-grid and off-grid configurations• familiarity with wind turbine systems' maintenance and operational principles, particularly small to medium-scale systems• proficiency in using renewable energy design and simulation software such as PVsyst, HOMER, or Windpro for system sizing, generation modelling, and performance analysis• understanding of basic electrical installation principles, particularly in the context of renewable energy systems, including DC and AC systems, inverter integration, battery storage, and grid connection• awareness of local and international standards relevant to renewable energy installation and safety (e.g. IEC, ISO, or national standards)• experience with system commissioning, including performance testing and troubleshooting. <p>Desirable:</p> <ul style="list-style-type: none">• experience in energy needs assessment and site evaluation, including orientation, shading, and load profiling• familiarity with smart grid technologies, microgrids, or hybrid energy systems• understanding of renewable energy policy, sustainability goals, and customer-focused design principles• exposure to digital tools and simulation platforms, including digital twins, for renewable energy modelling• experience in training, coaching, or competition preparation in a technical education context. <p>More details are available here: WorldSkills Occupational Standards - Renewable Energy</p>