

Work Process Schedule

WORK PROCESS SCHEDULE		O*NET SOC Code: 49-9081.00
Wind Turbine Technician		RAPIDS Code: 2000CB
Job Title: Wind Turbine Technician		
Level:	Specialization:	
Stackable Program: __Yes __No		
Base Occupation Name:		
Company Contact:		
Address:	Phone:	Email:
Apprenticeship Type: <input checked="" type="checkbox"/> Competency-based <input type="checkbox"/> Time-based <input type="checkbox"/> Hybrid		Prerequisites:

Job Function 1: Maintains a safe and secure work environment			
Competencies	Core or Optional	RTI	OJT
A. Maintains a clean and safe work area	Core		
B. Follows company and job-specific safety procedures and federal, state, and local regulations, including applicable safety, health, and environmental regulations	Core		
C. Follows ESD (electro-static discharge) procedure	Core		
D. Handles HAZMATS and materials according to MSDS requirements	Core		
E. Follows electrical safety procedures (low, medium, or high voltage)	Core		
F. Performs safety inspections	Core		
G. Follows environmental protection and hazardous chemical control procedures	Core		
H. Maintain personal protective equipment	Core		
I. Follows lock-out/tag-out procedures (energy flow/isolation)	Core		
J. Participates in Job Safety Analysis (JSA)	Core		

K. Stays up to date on company safety policy regulations	Core		
L. Interacts with customers and vendors in a professional manner	Core		
M. Participates in job or equipment-specific training and maintains technical skills	Core		
N. Performs work required to maintain a well-kept appearance of wind turbines	Core		

Job Function 2: Maintains specialized equipment			
Competencies	Core or Optional	RTI	OJT
A. Follows the established calibration schedule	Core		
B. Runs performance checks	Core		
C. Red-tags malfunctioning and out-of-calibration equipment	Core		
D. Performs preventive maintenance on specialized equipment	Core		
E. Maintains the test equipment, where possible	Optional		
F. Evaluates the usefulness of current equipment and the need for new equipment	Core		

Job Function 3: Commissions new turbines			
Competencies	Core or Optional	RTI	OJT
A. Ensures proper fluid levels	Optional		
B. Inspects fasteners	Optional		
C. Terminates and tests components	Optional		
D. Performs diagnostic checks	Optional		
E. Performs reliability checks	Optional		
F. Performs proper start-up and break-in procedures according to manufacturer's recommendations and specifications	Optional		

Job Function 4: Assists with major component repair and replacement			
Competencies	Core or Optional	RTI	OJT
A. Troubleshoots, repairs, and replaces hydraulic systems	Optional		
B. Aligns shafts using laser-alignment equipment and procedures	Optional		
C. Performs mechanical shaft alignments	Optional		
D. Repairs and replaces generators	Optional		

E. Installs, repairs, and replaces equipment using hoists and rigging techniques	Optional		
F. Follows accepted standards and practices for mechanical and electrical assembly	Optional		
G. Installs and replaces bearings	Optional		

Job Function 5: Performs preventive and predictive maintenance			
Competencies	Core or Optional	RTI	OJT
A. Selects, controls, and inspects required tools and test equipment	Core		
B. Follows operating procedures and controls check sheets	Core		
C. Inspects rotors and air coils	Core		
D. Lubricates bearings, gears, and top offs	Core		
E. Selects and replaces torque and tension fasteners	Core		
F. Inspects bonding and grounding points (including lightning protection) inside and outside of turbine	Core		
G. Repairs and replaces consumable wear components	Core		
H. Works in small groups and teams to accomplish work tasks	Core		
I. Follows manufacturer specifications in the operation and maintenance of equipment	Core		
J. Monitors and uses site computer hardware and software systems	Core		

Job Function 6: Troubleshoots and tests systems and components			
Competencies	Core or Optional	RTI	OJT
A. Reviews the equipment and product information (e.g., manuals, schematics)	Core		
B. Performs inspection (visual, audio, smell, touch, measurements)	Core		
C. Traces circuits	Core		
D. Generates a nonconformance report	Core		
E. Maintains detailed records and logs	Core		
F. Replaces circuit boards	Core		
G. Loads new control system software	Core		
H. Interprets sketches, schematics, and blueprints	Core		
I. Tests and replaces motors	Core		
J. Replaces PLCs and controllers	Core		
K. Troubleshoots, calibrates, installs, and repairs components and instrumentation	Core		

Job Function 7: Maintains records and creates reports			
Competencies	Core or Optional	RTI	OJT
A. Completes required reports	Core		
B. Maintains open communication with supervisor	Core		
C. Completes daily logs	Core		
D. Operates basic System Control and Data Acquisition (SCADA) control system functions	Core		
E. Maintains electronic documents and records	Core		
F. Revises and edits documents	Core		