



Science, Technology, Engineering, Math (STEM)- Energy Career Pathway

<Name of Region>

2020-2021

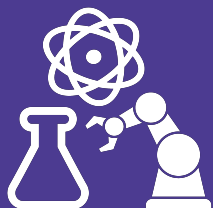


EXPLORE: Click on the links to find the job titles that seem most interesting to you to learn more! Save any jobs you are interested in from this career pathway in your XELLO account so that you can create an Academic and Career Plan (ACP) later on.

Educational Level May also require work experience	Power Plants (Energy Generation)	Power Lines (Energy Transmission & Distribution)
High School Diploma, Certification	<p> Electrical & Gas Power Line Helper ○ Tree Crew Range \$xxx,xxx-xxx,xxx </p>	<p> Laborer/Field Worker Customer Service Clerk ★○ Meter Reader Range \$xxx,xxx-xxx,xxx </p>
Certification or Technical Diploma	<p> Power Plant Technician Range \$xxx,xxx-xxx,xxx </p>	<p> Electric Power Lineworker ○ Service & Metering Technician Range \$xxx,xxx-xxx,xxx </p>
Registered Apprenticeship	<p> Substation Electrician ★ Range \$xxx,xxx-xxx,xxx </p>	<p> Electric Power Lineworker ○ Metering Technician Range \$xxx,xxx-xxx,xxx </p>
Associate Degree	<p> Power Plant Operator ○ Substation Technician ★ Electrician ★○ Electrical Drafter ○ Electrical Engineer Technician/ Technologists ★○ Range \$xxx,xxx-xxx,xxx </p>	<p> Electric Power Lineworker/Service Technician ★○ Power Distributor & Dispatcher Mapping Technician/ GIS Technician ○ Senior Crew Leader Range \$xxx,xxx-xxx,xxx </p>
Bachelor Degree and beyond	<p> Power Plant or Operations Supervisor Civil Engineers ★○ Electrical Engineer ★○ Energy Auditor ○ Range \$xxx,xxx-xxx,xxx </p>	<p> Specialist/Supervisor ★ Range \$xxx,xxx-xxx,xxx </p>
Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options

★ **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!

○ **XELLO** = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)



Science, Technology, Engineering, Math (STEM)- Energy Career Pathway In High School



A K12 career pathway must include:

- A sequence of courses (including at least 2 CTE courses)
- Two of the following components: *Career and Technical Student Organization, Work-based Learning, Industry Recognized Credential, College Credit Opportunity*

Career and Technical Education Courses	Must include a sequence of at least TWO Career and Technical Education courses. Should align with Education Building Blocks for the pathway. • • •	CAREER EXPLORATION PROGRAMS
Additional Employer Recommended Courses	Should align with Education Building Blocks for this pathway. • • •	Statewide: <ul style="list-style-type: none"> • HS Energy career academy course curriculum • WI K12 Energy Education Program (KEEP) • WI Energy Workforce Consortium • Get into Energy/Get into STEM
Career and Technical Student Organization	<ul style="list-style-type: none"> • WI SkillsUSA 	Regional: • •
Work-Based Learning Program Options	<ul style="list-style-type: none"> • Employability Skills (90 hrs) • Youth Apprenticeship- Architecture & Construction (Electrical focus) (450 hrs/year; 1-2 years) • Youth Apprenticeship- STEM (Electrical Engineering focus) (450 hrs/year; 1-2 years) • Local Work-based Learning Programs that meet state quality requirements 	Local:
	Power Generation	Energy Transmission & Distribution
Industry Recognized Credential Options Learn the skills that employers want to see! <i>Italics = must be 18 years old to obtain</i> <i>*This certification is eligible for reimbursement through the technical incentive grant</i>	<ul style="list-style-type: none"> • First Aid: CPR/AED • WorkKeys/National Career Readiness Certificate • CEWD Energy Industry Fundamentals Certificate (EIF) No additional certifications available.	<ul style="list-style-type: none"> • *CDL • *National Institute for Metalworking Skills (NIMS) <ul style="list-style-type: none"> ◦ Machining Level I- Measurement, Materials & Safety; Machining Level I- Job Planning, Benchwork & Layout • Refrigeration License • FAA Drone Operator
College Credit Opportunities	You can find the list of college credit opportunities included in the postsecondary options for this pathway HERE .	