



**Oregon Renewable Energy
Joint Apprenticeship & Training Committee**

To qualify for the Oregon Limited Renewable Energy Technician's (LRT) licensing exam, apprentices must complete 4000 hrs. of on-the-job training (OJT) with a registered training agent, along with 288 hrs. of related training (RT) with a registered related training provider

1st Year Related Instruction

- **APR153A: Electrician Apprentice Fundamentals:** 60 hours
 - Online through Independent Electrical Contractors (IEC)/Chemeketa Community College, course costs \$510
 - <https://www.chemeketa.edu/programs-classes/program-finder/apprenticeship/course-descriptions/>
 - For more information and to register for this course (not for college credit), please contact Jeff Hooper at jeff@iecoregon.org or 541-301-0358. New sessions begin every September and January; courses take place on weekday evenings
 - To register for this course for college credit, you must first enroll as a student at Chemeketa Community College. You can choose to receive CCC credit in addition to IEC.

- **RE100: Introduction to Renewable Energy Systems:** 6 hours
 - Online through Solar Energy International; FREE
 - <https://www.solarenergy.org/courses/introduction-to-renewable-energy/>

- **PVOL101: Fundamentals of Grid-Direct Solar Design and Installation:** 60 hours
 - Online through Solar Energy International; \$845 (use discount code "OSEIAMEM100" for \$100 off) or apply for a scholarship (see information below)
 - <https://www.solarenergy.org/courses/solar-training-solar-electric-design-and-installation-grid-direct-online/>

- **CE523: Residential and Commercial Roof-Mounted PV Installation Safety & CE525: Large-Scale Ground-Mounted PV Installation Safety:** 20 hours
 - Online through Solar Energy International; \$149 (use discount code "LRT49" when registering online to get \$100 off)
 - <https://www.solarenergy.org/shop/package-deals/solar-safety-training-package/>

- **CE529: Hazards of Electrochemical Storage Systems in Solar + Storage Applications:** 4 hours
 - Online through Solar Energy International; \$199 (register via phone at 970-527-7657 with discount code "LRT49" to get \$100 off)
 - <https://www.solarenergy.org/hazards-of-electrochemical-energy-storage-in-solar-and-storage-applications/>



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2nd Year Related Instruction:

- **PVOL202: Advanced PV Design and the 2017 National Electrical Code:** 60 hours
 - Online through Solar Energy International \$845 (use discount code “OSEIAMEM100” to get \$100 off) or apply for a scholarship (see information below)
 - <https://www.solarenergy.org/courses/solar-training-advanced-pv-system-design-and-the-nec-grid-direct-online/>
- **PVOL203: Fundamentals of Battery-Based PV Systems OR PVOL350: Tools and Techniques for PV Operations and Maintenance (select one):** 40 hours
 - Online through Solar Energy International \$645 (use discount code “OSEIAMEM100” to get \$100 off) or apply for a scholarship (see information below)
 - <https://www.solarenergy.org/courses/solar-training-pv-system-fundamentals-battery-based-online/>
 - <https://www.solarenergy.org/courses/solar-training-tools-techniques-operation-maintenance-online/>
- **NABCEP PV Installation Professional Board Certification:** 55 hours
 - Passing score provides 55 hrs. of related instruction, offered through the North American Board of Certified Energy Practitioners (NABCEP)
 - Application \$125, Exam \$375
 - <https://www.nabcep.org/certifications/nabcep-board-certifications/>
- **CE526: PV & Energy Storage and the 2020 National Electrical Code:** 8 hours
 - Online through Solar Energy International, \$149
 - <https://www.solarenergy.org/courses/the-2020-nec-pv-and-energy-storage-systems/>

Important Notes

- As an LRT apprentice, you are responsible for registering for these classes on your own. While there is flexibility regarding when you complete these classes, please note that you cannot advance to the next term of apprenticeship until meeting both the minimum on-the-job training (OJT) and related training (RT) hours, as shown below:

Term of Apprenticeship	OJT Hours	RT Hours	Min % of Average Journey Worker Wage
1 st	0 - 1000	0 - 72	50%
2 nd	1000 - 2000	72 - 144	60%
3 rd	2000 - 3000	144 - 216	70%
4 th	3000 - 4000	216 - 288	80%

- For LRT licensing exam tutoring & practice tests (optional), go to <https://oregonelectrictestprep.com/>



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- To learn about tuition payment assistance options with Solar Energy International, including scholarship information, go to: <https://www.solarenergy.org/tuition-payment-options/>