

# 2024-25 ACADEMIC COURSES

## EWA 260: APPLIED SCIENCE

This course prepares apprentices in the electrical trades to accurately apply principles of science to their work. Topics include: the structure of matter, the physical characteristics of copper and aluminum as conductor materials, the atomic structure of conductors versus insulators (dielectrics), temperature-pressure enthalpy diagrams for heating and cooling cycles, and light propagation in fiber optic media. Limited to IBEW 252 Apprentices. Level I Prerequisite: Academic Reading and Writing Levels of 6

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Description	Hours
Credits	3
Lecture Hours	45
Clinical Hours	0
Lab Hours	0
Other Hours	0
Total Hours	45

Accurate as of 10/24/2024 Information is subject to change without notice.