

Outline for Motors, Pumps, and Irrigation

Topic	Slides	Time
Intro – Definitions – Protection of conductors	25	45
Article 430 – Single motor applications – Ratings	8	15
Article 430 – Motor circuit conductors	5	10
Article 430 – Overload Protection	11	20
Article 430 – Short circuit and Ground fault protection	14	20
Well pump and building load calc		20
Irrigation – management and water resource storage	5	10
Irrigation Machines Art 675 – General	46	60
Irrigation Machines Art 675 – Center Pivot	10	20
Load calc example		20
Totals	124	240

Instructor: Frank Seiler

Materials: 2023 NEC

Objective: Review NEC requirements for equipment protection, grounding, bonding, Conductor sizing, and personnel protection distribution equipment, pumps, and irrigation machines

Learning outcomes: Practical examples demonstrated with instructor led examples and student learning tested with end of class quiz

I have read and understand the roster recording requirements for course sponsors provided with the course applications.



rev June 2025