

*Oklahoma Association of Electric Cooperatives  
Transformer School  
April 16-18, 2019*

**April 16**

**12:30pm – 1:00pm – Registration (OAEC Training Center)**

**1:00pm – 2:00pm – Basics - inductance and inductive reactance,  
Transformer Action**

**2:00pm – 2:15pm – Break**

**2:15pm – 3:15pm – Types of Transformers, Transformer Sizing and Fusing**

**3:15pm – 3:30pm – Break**

**3:30pm – 4:30pm – Transformer Calculations, Power Calculation in Three  
Phase Systems – Work Group Assignments**

**April 17**

**8:30am – 10:00am – Workstations**

**10:00am – 10:15am – Break**

**10:15am – 11:45am – Workstations**

**11:45am – 1:00pm – Lunch**

**1:00pm – 2:30pm – Workstations**

**2:30pm – 2:15pm – Break**

**2:15pm – 4:15pm – Workstations**

**April 18**

**8:30am – 10:00am Workstations**

**10:00am – 10:15am Break**

**10:15am – 11:45am Workstations**

**11:45am – 12:00pm Open Discussion, Program Evaluation, Dismiss**

***OKLAHOMA ASSOCIATION of ELECTRIC COOPERATIVES***

***TRANSFORMER SCHOOL--2019***

***Workstations & Instructors***

**General Session – Norman McDugle, OAEC**

**Workstation # 1 --- Stacey Marston, Kansas Electric Cooperative Association**

**Trouble Shooting all connections**

**Workstation # 2 – Larry Phillips, Cotton Electric Co-op**

**Wye/Delta 4 Wire**

**Open Wye/Open Delta – Hands on training, miniature transformers.**

**Workstation # 3 – Larry Detwiler, Kansas Electric Cooperative Association**

**Wye/Delta 3 Wire - Hands on training, miniature transformers.**

**Workstation # 4 – Wade Hurst, OAEC**

**Wye/Wye 4 Wire – Hands on training, miniature transformers.**

**Workstation # 5 – Norman McDugle, OAEC**

**Loads— Load calculations Wye and Delta connections.**

**Trouble shooting—Full size transformers.**

**Workstation # 6 – Josh Jackson, Verdigris Valley Elect Co-op**

**Single & Three Phase Pad-mount Transformers**