TRANSFORMERS II — ELLW 1162

A. Course Description

- Credits: 4.00
- Lecture Hours/Week: 2.00
- Lab Hours/Week: 2.00
- OJT Hours/Week: 0
- Prerequisites: None
- Corequisites: None
- MnTC Goals: None

This course covers 3 phase transformer theory and their connections to the primary and secondary distribution systems. Prerequisites: Concurrent enrollment in ELLW1160.

B. Course Effective Dates: 3/21/98 – Present

C. Outline of Major Content Areas

As noted on course syllabus

D. Learning Outcomes

1. Identify Wye and Delta connections and demonstrate where they would be used.
2. Apply transformer vectoring to diagram connections and determine phasing.
3. Calculate transformer capabilities and loads.
4. Construct various 3 phase overhead distribution banks.
5. Apply various trouble shooting techniques to diagnose problems within the transformer or customers service.
6. Indicate hazards associated with 3 phase transformers and how to properly protect yourself and the public.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment

As noted on course syllabus

G. Special Information

None noted