



Wayne County Community College District

COURSE SYLLABUS

LRT 240 Railroad Signaling and Switching

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00

COURSE DESCRIPTION:

This course provides a basic understanding of a railroad signal system, including track circuits and all applicable federal laws and guidelines. Included is the basic concept of marshalling (making sure the railcars are arranged in the correct sequence) and efficient, effective switching procedures.

PREREQUISITE: *LRT 102*

EXPECTED COMPETENCIES:

Upon successful completion of the course, the student will be able to:

- Develop a classification plan for a section of cars.
- Plan the process for delivery and pickup of freight to and from customers.
- Identify the various segments of a hump yard.
- Become familiar with the logic driving blocking of trains and yard classification systems.
- Understand the interaction between trains via the various signal systems.
- Understand the command and control responsibilities of various levels of supervision.
- Understand how the various components of PTC are combined to prevent train on train incidents.
- Become aware of employee responsibilities related to hazardous material movement and FRA rule violations.

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E