Middle Bucks Institute of Technology

Course - Electrical Technology

Instructor: Randy McDowell Date(s): Week 8-17

Lesson Title: Blueprint Reading Level 100

Lesson Number: 400

Unit: Level 1 - Semester 1 - Blueprint Reading

Objectives/Description:

After lecture discussion and demonstartion, studenst will be able to identify, and populate various electrical blueprints According to NEC, and Industry standards.

Tasks/Learning Activities: (student focused)

PA400 - Blueprint Reading

PA401 - Identify types of blueprint plans.

PA402 - Identify blueprint symbols.

PA403 - Interpret blueprint plans.

PA405 - Develop electrical details on a blueprint.

PA406 - Use a measuring tool to scale.

Standards / Assessment Anchors

LITERACY READING

CC.1.2.11-12.A Determine and analyze the relationship between two or more central ideas of a text, including the development and interaction of the central ideas; provide an objective summary of the text.

CC.1.2.11-12.E Analyze and evaluate the effectiveness of the structure an author uses in his or her exposition or argument, including whether the structure makes points clear, convincing, and engaging.

CC.1.2.11-12.F Evaluate how words and phrases shape meaning and tone in texts.

CC.2.1.HS.F.3 Apply quantitative reasoning to choose and Interpret units and scales in formulas, graphs and data displays.

8/26/22, 12:10 PM Guides4Learning

CC.2.2.HS.D.8 Apply inverse operations to solve equations or formulas for a given variable.

CAREER EDUCTION & WORK

13.1.11.A Relate careers to individual interests, abilities, and aptitudes.

13.1.11.C Analyze how the changing roles of individuals in the workplace relate to new opportunities within career choices.

Instructional Activities: (teacher focused)

- *Pre-Learning
- Essential Question Posting
- K-W-L (M A X)
- Picture walk
- Quick look
- Vocabulary by accident
- Cornell Notes (A X)
- Question aloud
- Reciprocal Teaching
- Triangle Truths (A X)
- Develop tomorrow's quiz
- Demonstrate what was learned
- Writing journals

Special Adaptations:

Per student accommodations

- Study Guide
- Use of Calculator
- Drill and Practice (Repetition of Material)
- Teacher Modeling
- Communication Regarding Behavior & Consequences (PBS)

Assessment:

- FORMATIVE/SUMMATIVE EVALUATION
- Traditional Tests multiple choice, matching, true/false, short answer completion
- Traditional Quizzes multiple choice, matching, true/false, short answer completion
- Module Exam
- Graded Writing assignments
- Textbook Computer Generated Tests
- OBSERVATIONAL EVALUATION
- Class Oral Responses
- Teacher evaluating student class participation
- WORK ETHIC

- Study guides provided prior to tests
- Use of calculator
- Extended time to complete the assessment

Safety:

All work shall be performed in a workmanlike and safe manner according to industry and OSHA standards.

Lesson Preparation:

Updates all presentation slides and documents to reflect current NEC codes. Print out multiple Scaled Blueprints. Insure scale rulers arent broken and there are enough for each student.

Resources/Equipment:

Electrical Wiring Residential, Cengage, Most recent edition National Electrical Code, Most recent edition Electrical supplies & equipment Powerpoints Teacher made handouts Computer Google Classroom

Additional Notes:

Supplemental materials wil be poted in Google Classroom.