A. Course Description

- Credits: 2.00
- Lecture Hours/Week: 2.00
- Lab Hours/Week: 0.00
- OJT Hours/Week: 0
- Prerequisites: None
- Corequisites: None
- MnTC Goals: None

Students will learn and practice knot tying and splicing. Also included are the study of rope characteristics, different uses of rope, and basic rigging techniques.

B. Course Effective Dates: 8/22/16 – Present

C. Outline of Major Content Areas

As noted on course syllabus

D. Learning Outcomes

1. Identify common types of ropes used
2. Demonstrate uses of a web sling
3. Explain web sling data on identification tag
4. Calculate how sling angle effects sling tension
5. Calculate mechanical advantage and strain on block and tackle
6. Demonstrate use of hot hoists on overhead conductors
7. Demonstrate use of chain hoists on guying
8. Apply chains and shackles to applications
9. Identify ratings of chains and shackles
10. Demonstrate use of a hand-line
11. Apply proper care and maintenance to rope
12. Calculate working load limits on ropes and rigging equipment
13. Define efficiency of common knots
14. Apply specific knots to applications
15. Demonstrate tying knots
16. Demonstrate Splicing an eye in the end of a rope
17. 8. Demonstrate splicing two ropes together
18. 9. Identify types of web slings

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

F. Learner Outcomes Assessment
   
   As noted on course syllabus

G. Special Information
   
   None noted