CDL 1535: Cargo Securement

A. COURSE DESCRIPTION

Credits: 1
Lecture Hours/Week: *.*
Lab Hours/Week: 2
Prerequisites: None
MnTC Goals: None

Cargo securement is designed to give the student the tools to safely load cargo, distribute weight, and secure against movement. Common practices in class will be securing cargo in a van-type trailer as well as a flatbed-type trailer. Additional training will be conducted with other commodities such as liquid, livestock, equipment, and removable gooseneck trailers.

B. COURSE EFFECTIVE DATES: 01/09/2017 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Cargo securement in van trailers
   A. Load locks
   B. Bulkhead construction
   C. Load straps and working load limits
   D. Protecting side-to-side movement
   E. Dunnage

2. Cargo securement on flatbed trailers
   A. Straps and working load limits
   B. Chains and working load limits
   C. Edge protectors
      1. Cargo, chains
      2. Cargo, straps
      3. Tarps

D. Bulkhead construction
E. Strapping techniques
F. Storage when not in use
G. Tarping
   1. Smoke tarping
   2. Steel tarping
   3. Lumber tarping

3. Cargo securement on Removable Gooseneck trailers
   A. How to remove the gooseneck
   B. Securement of equipment
D. LEARNING OUTCOMES (General)
   1. Students will understand the principles of securement for a variety of van-type cargo.
   2. Students will understand the principles of securement for a flatbed-type trailer.
   3. Students will be able to define working load limits of chains and straps.
   4. Students will be able to define aggregate working load limit of chains and straps.
   5. Students will communicate load placement for all types of trailers.
   6. Students will perform basic tarping on a variety of flatbed loads.
   7. Students will safely remove a gooseneck from a RGN trailer.
   8. Students will understand the effects of side to side movement, and restrict it.
   9. Students will understand the effects of forward and rearward movement, and restrict it.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   HCC COMPETENCIES MET:
   Working Productively and Cooperatively
   Thinking Creatively and Clearly

   STUDENT CONTRIBUTIONS:
   Students are expected to attend class sessions, participate in activities and discussions, listen to and follow
   directions, complete assignments in a timely manner, request assistance when needed, and contribute to a
   productive learning environment.

   AASC APPROVAL DATE: February 15, 2017
   AASC REVIEW: February 2022