

Rigging: Compound Mechanical Advantage Systems Rigging Box & Equip Sta. 26 Tech Trailer



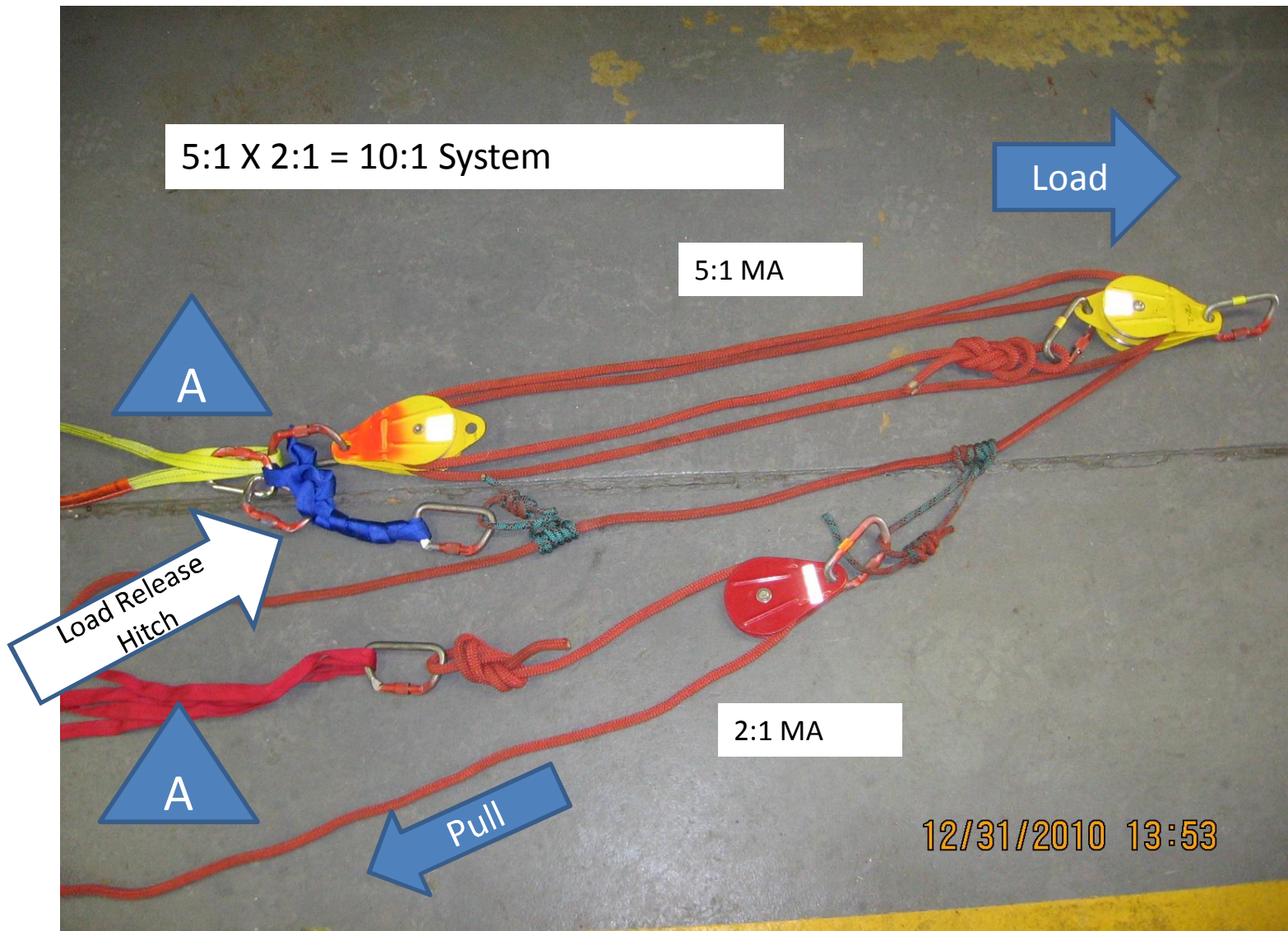
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Basic 5:1 Mechanical Advantage System



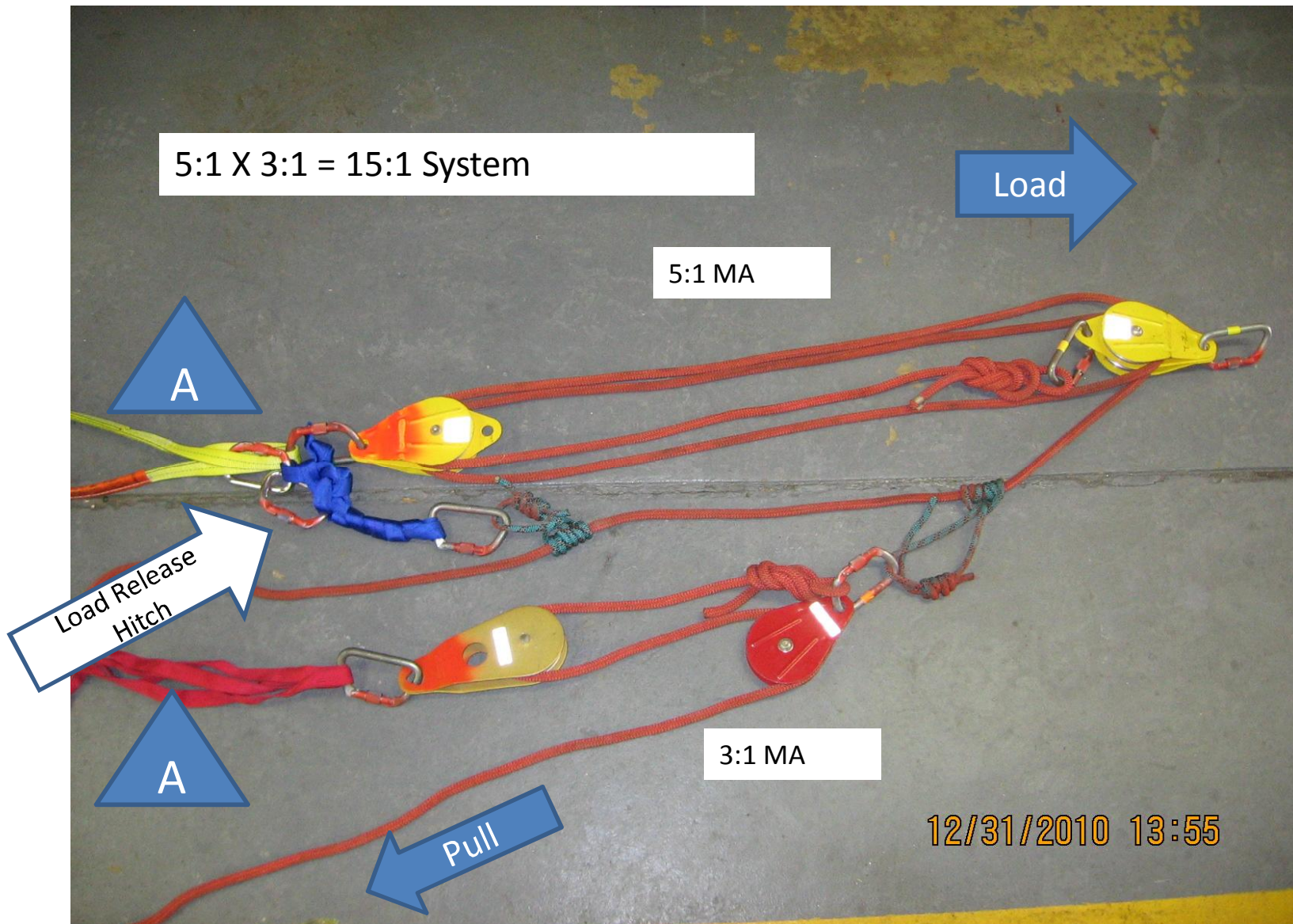
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Compound System 10:1 MA System



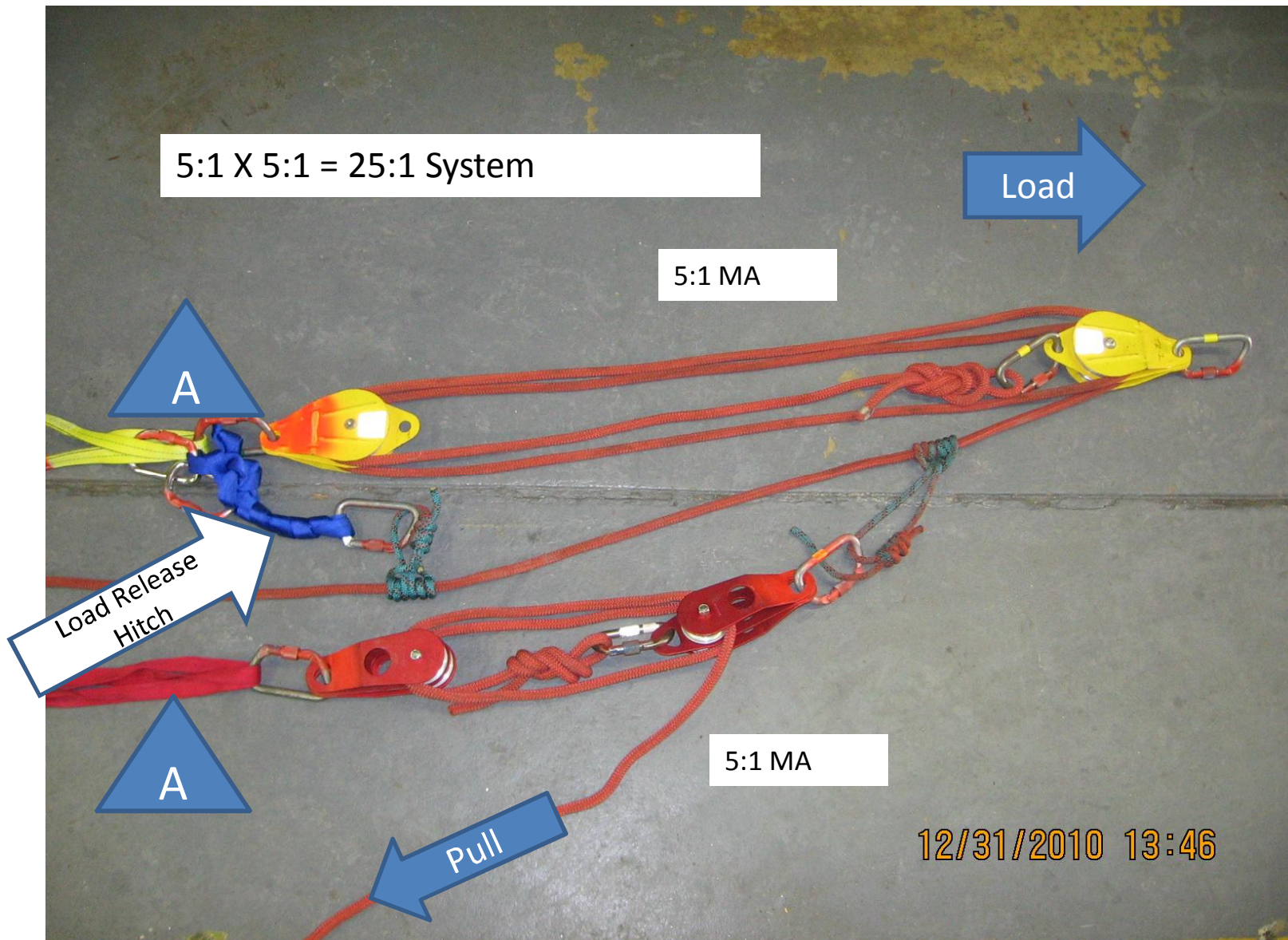
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Compound System 15:1 MA System



Rigging: Compound Mechanical Advantage Systems

Compound System 25:1 MA System



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Compound System 25:1 MA System

- “ When using compound systems, multiply systems together. Example, 5:1 times a 5:1 equals a 25:1 MA system.
- “ The load release hitch is a progressive capture device which will hold tension on the load when the system needs to be reset. This needs to be minded.
- “ The systems used in the examples are for a non-life hazard load. Therefore we are able to use the break strength rating of the hardware.
- “ In the case of the rope for the 5:1 MA system , each line in the system is carrying $1/5^{\text{th}}$ of the load. If the load was 5,000 pounds then each line would be subject to 1,000 pounds.
- “ All of the rigging equipment that is for non-life loads are or should be painted orange.

