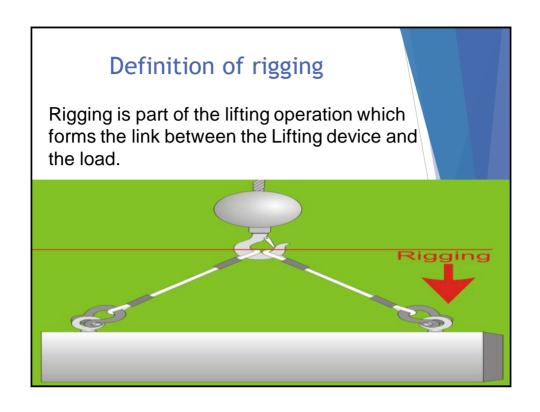


RIGGING &SLINGING

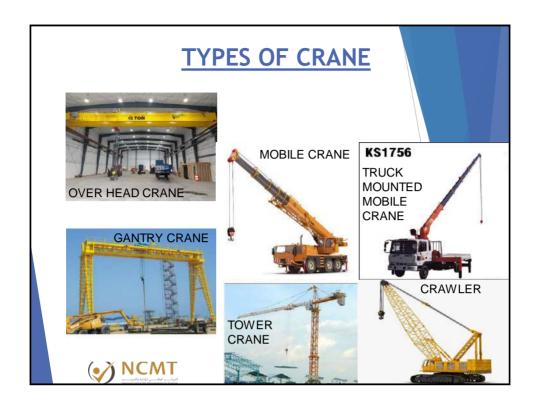
COURSE MATERIAL



COURSE RULES • Cell Phone usage • Breaks • Participation • No Smoking







LIFTING GEARS & ACCESSORIES

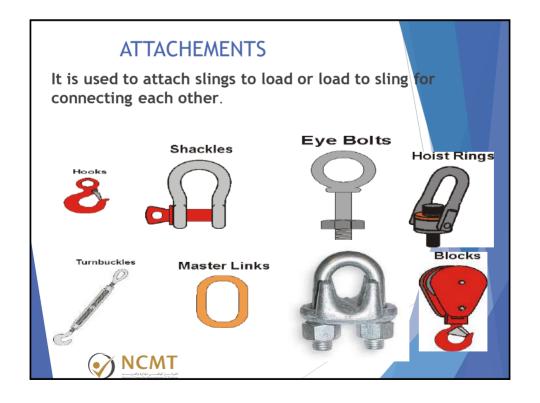
Lifting gears / Accessories:

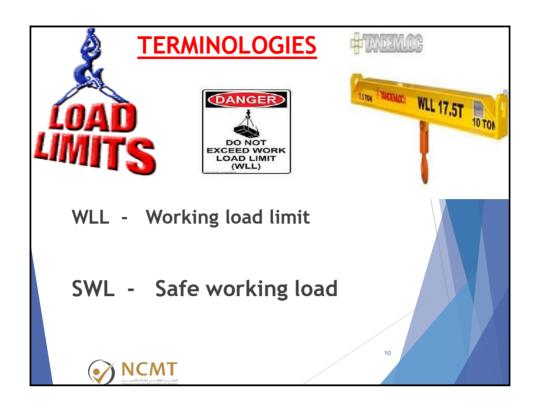
Any device which is used or designed to connect a load to a lifting appliances which does not form part of the load. There are different types of lifting gears are available, You should select the right type of gear depending on your load characteristics

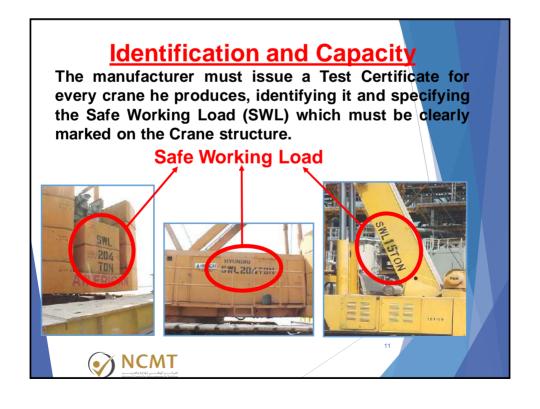
Example: Wire rope slings, chain slings, hooks and fittings Swivels, shackles, eye bolt etc..

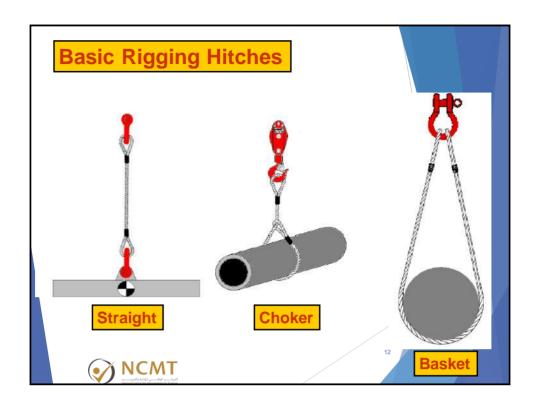


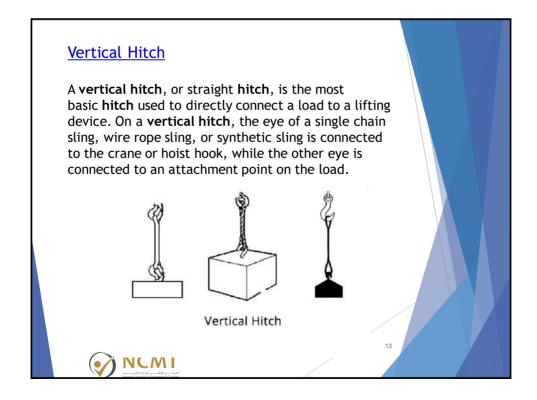








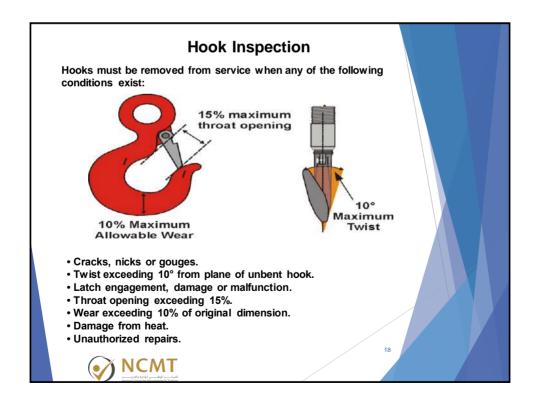










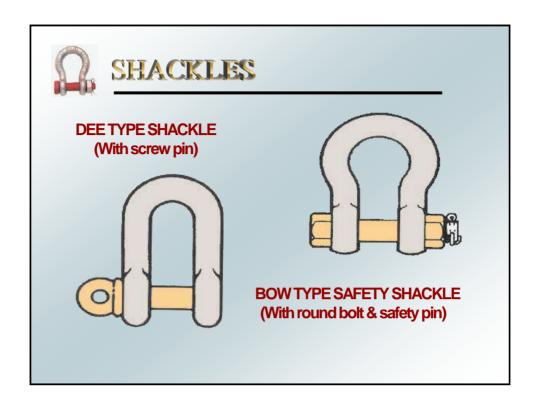


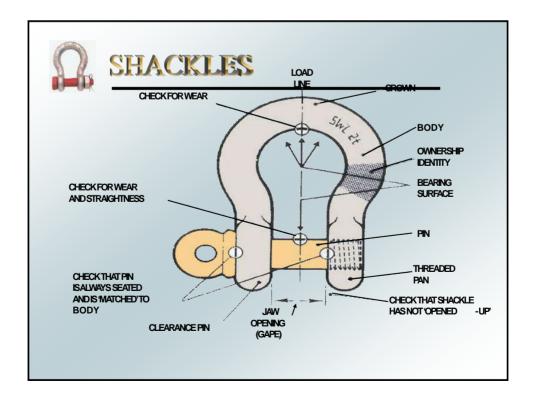












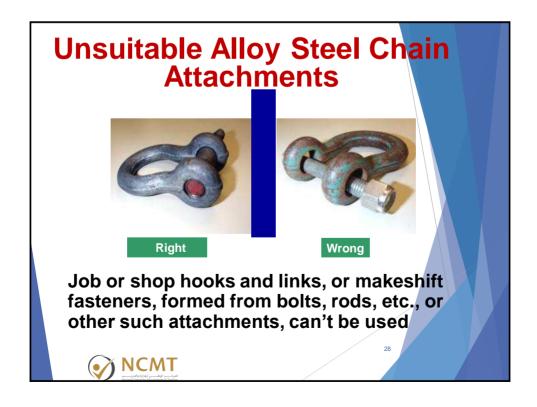


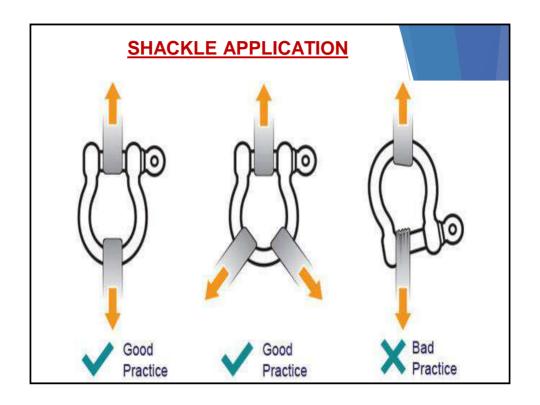
SHACKLES PRE - USE INSPECTION

- Select correct type shackle for the job in hand.
- Ensure the shackle is correctly colour coded.
- Check the safe working load of the shackle before use - no SWL - quarantine .
- Check shackle pin for excessive wear-if wear is 1/10th or more of original diameter quarantine.
- Make sure the pin is free-but not loose in the tapped hole(s) of the shackle.
- Threads on pin and shackle should be undamaged and without appreciable wear.

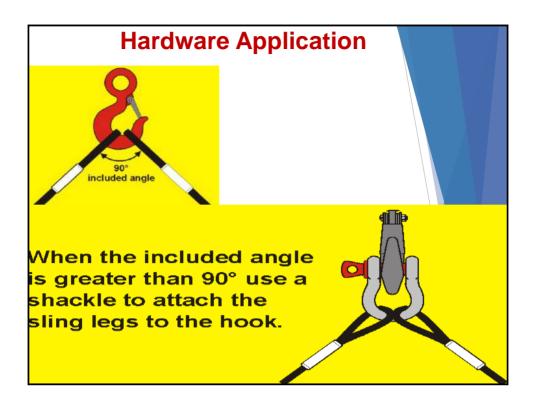
NCMT NCMT

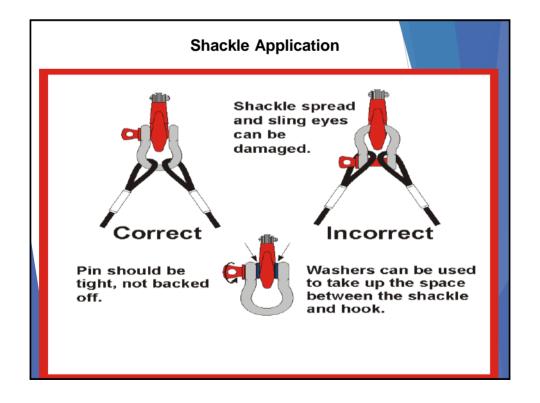




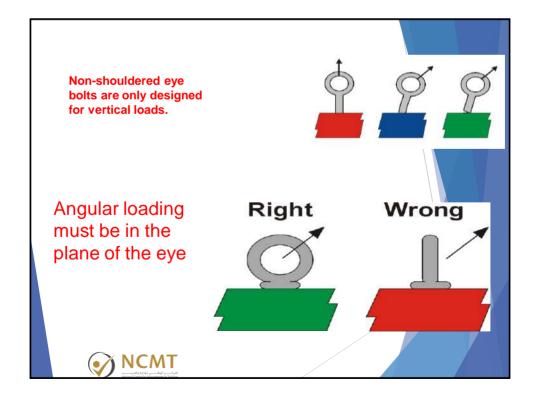


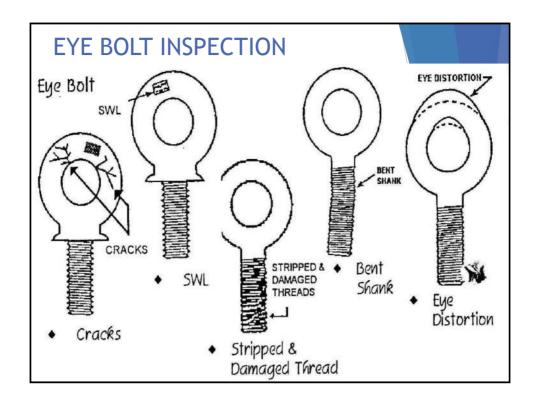


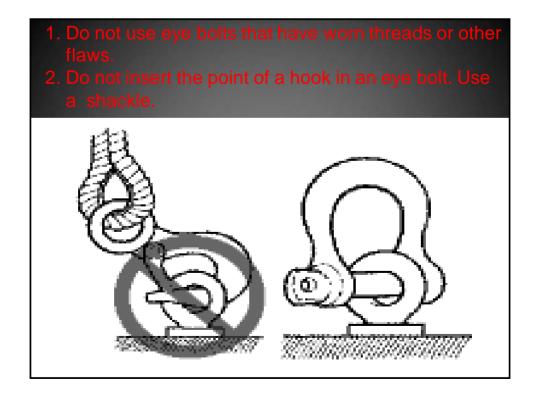


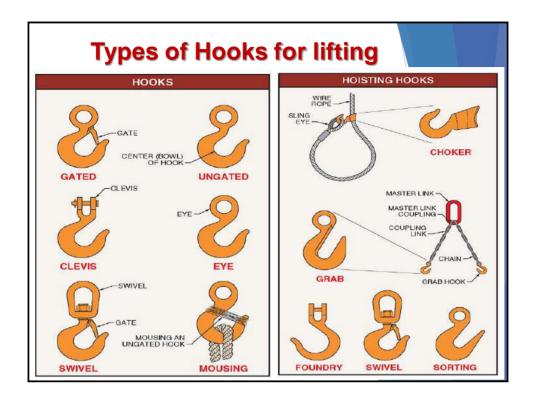


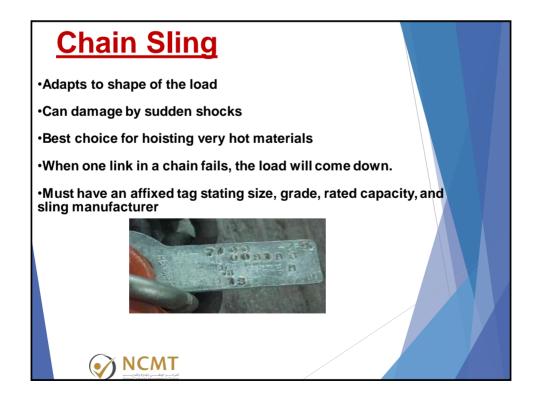






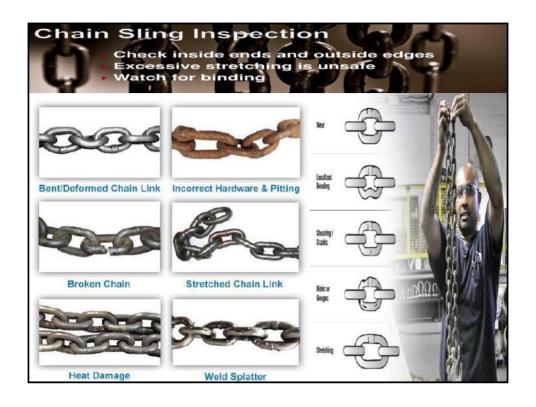








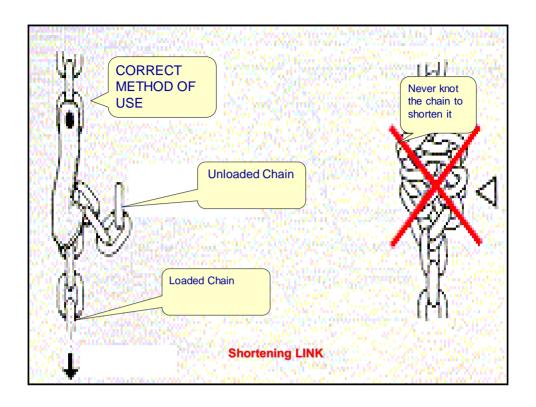


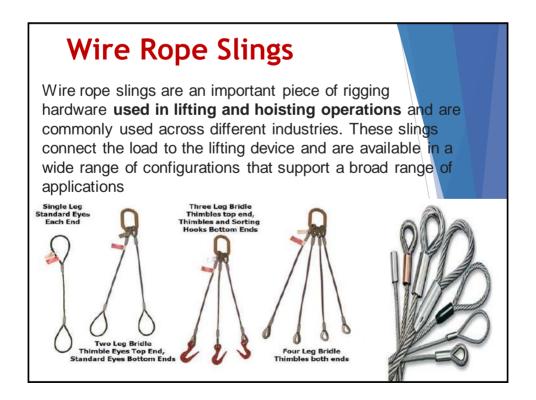


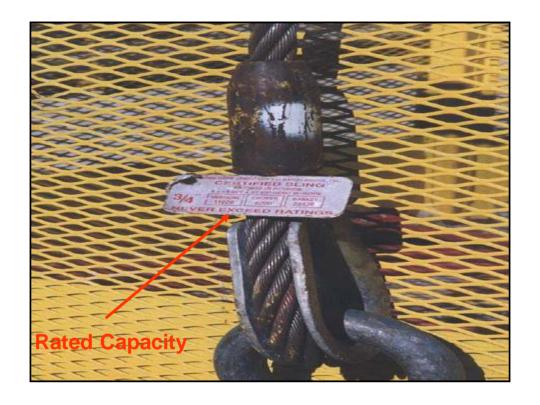




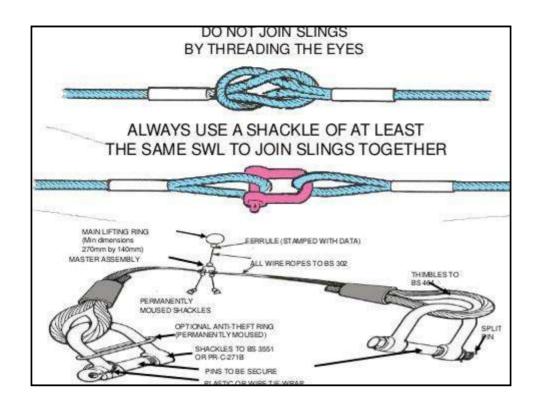






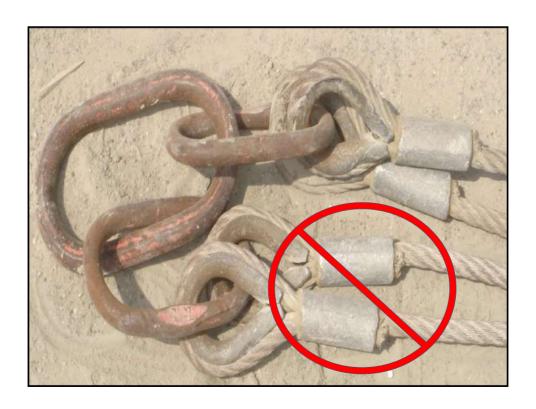


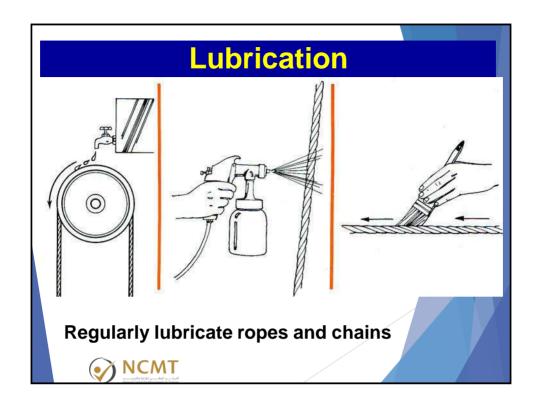


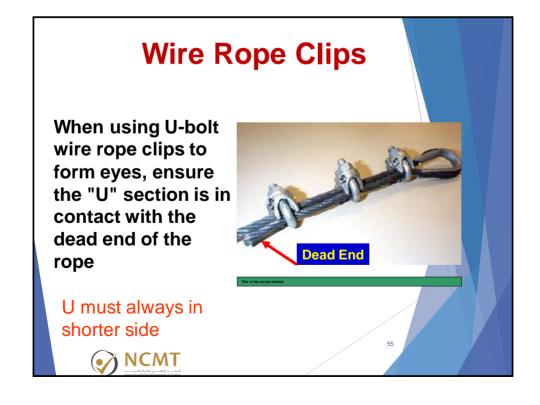


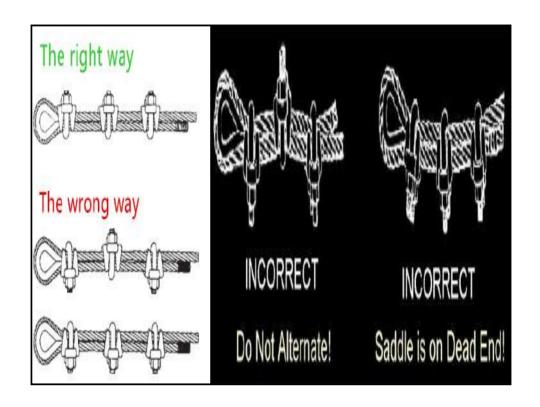






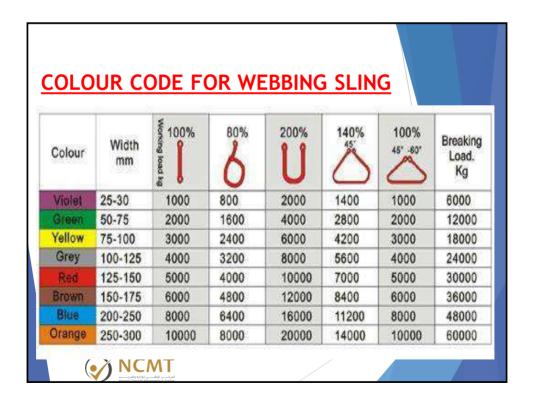








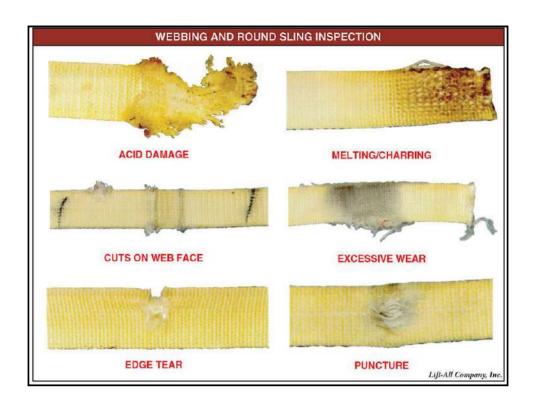




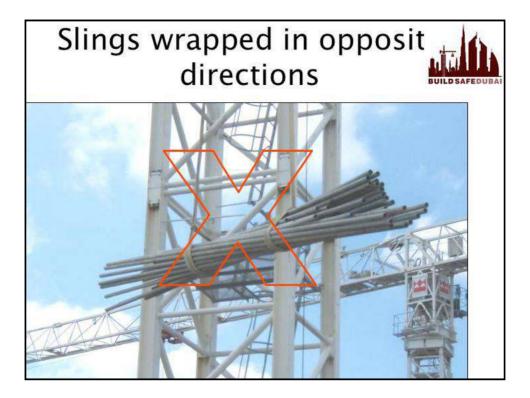


Synthetic Web Sling Inspection

- ✓ Acid or caustic burns on the sling.
- ✓ Melting or charring of any part of the sling's surface.
- ✓ Snags, punctures, tears, or cuts.
- ✓ Stitching is broken or worn.
- ✓ The sling is stretched. To assist operators in determining if a sling is stretched, manufacturers incorporate a <u>red wear cord</u> inside of the sling. When this red wear cord can be readily seen upon inspecting the sling, the sling has been stretched and is to be removed.







ADVANTAGE OF SLINGS

Chain sling;

- Long life than other types
- Good for wear and abrasion
- Flexible & high-rise lift

Wire Rope Sling;

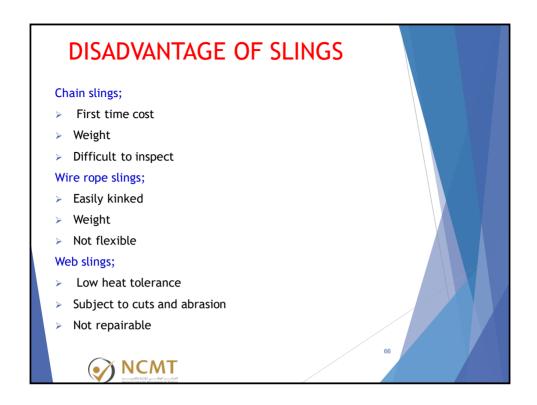
- Good for impact or shock loading
- Heavy lifting
- > IWRC is resistance to crushing (Independent wire rope core)

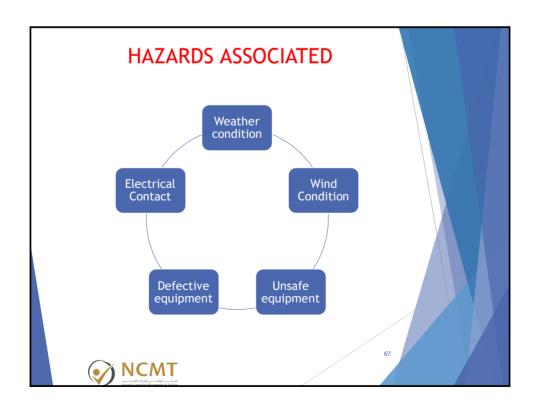
Web slings (Synthetic);

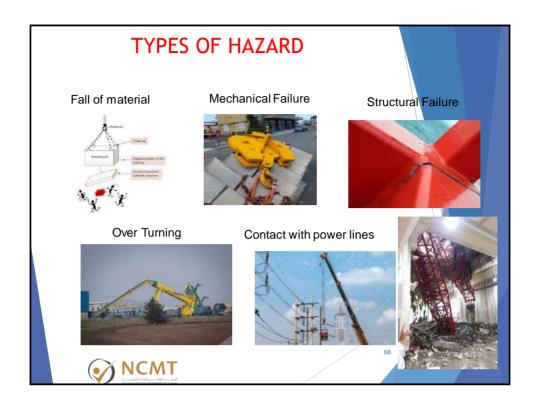
- Light Weight
- > Reduces load damage
- Good for loose material because of high contact

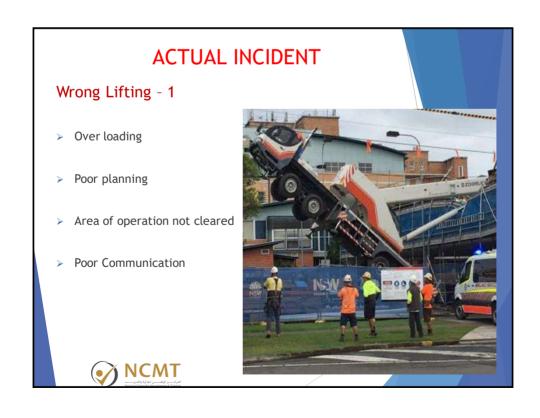


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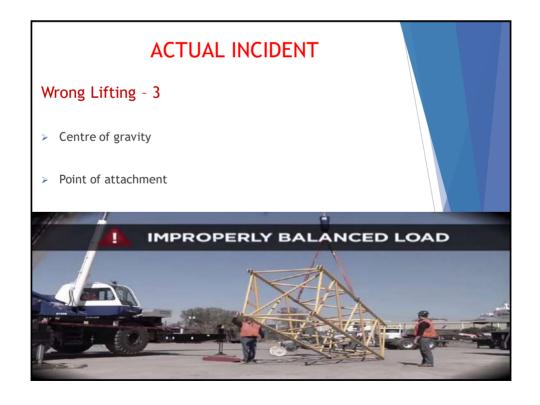




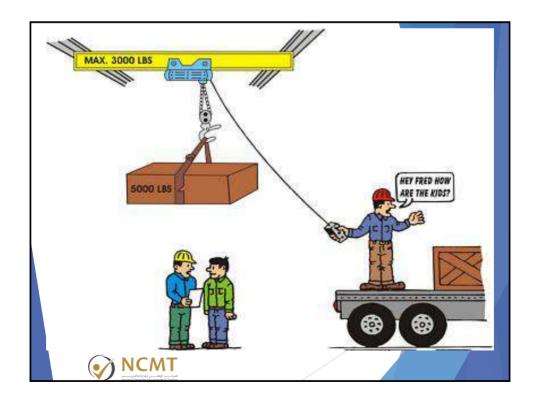


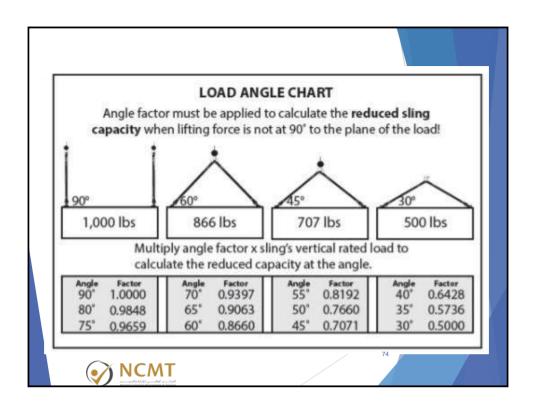


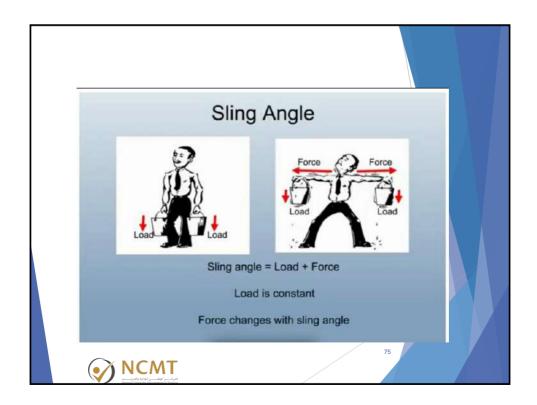






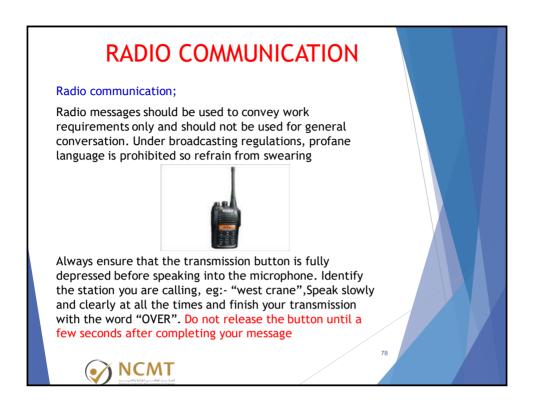




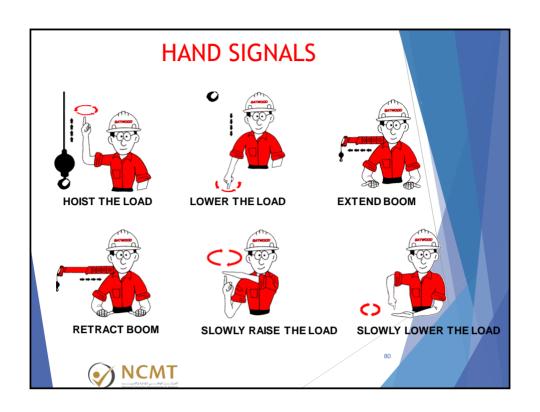


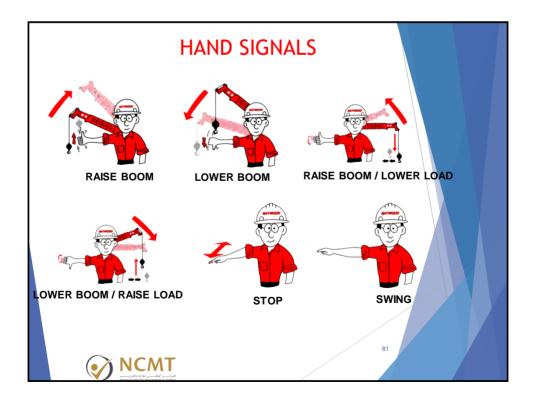


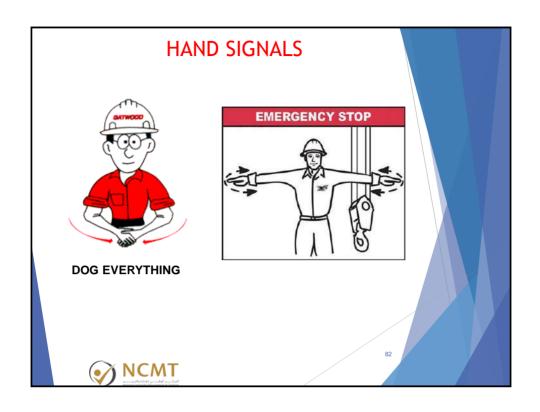


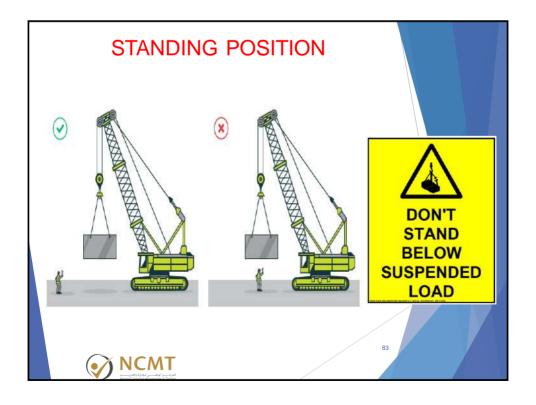












GUIDELINES FOR SLINGER/BANKSMAN

- 1. Do everything possible to ensure the safety of personnel and equipment.
- 2. Be familiar with the crane working range,load radius and boom angle.
- 3. Know and understand appropriate safe slinging principles.
- 4. Inspect lifting accessories each time before use.
- 5. Know the weight of the load and the slinging methodology.
- 6. Be able to select the correct equipment for the job in hand.
- 7. Be aware of obstructions and hazards within operating range.
- 8. Know and understand the method of banksman hand signals.
- 9. Give clear and precise hand signals.
- 10. Use correct protocol during radio communication.



GUIDELINES FOR SLINGER/BANKSMAN

- 11. Warn personnel in the area of the movement of the load.
- 12. Never lift a load over personnel.
- 13. Never stand beneath a load or allow other personnel to do so.
- 14. Ensure hands are clear from lifting gear prior to lifting loads.
- 15. Always ensure an escape route is available prior to lifting loads.
- 16. Always use tag lines especially for awkward loads.
- 17. Ensure a minimum of 3 personnel is deployed for each lifting operation. I.E. Crane operator, Banksman and slinger.
- 18. If anything out of the ordinary occurs **STOP** and **CHECK**.
- 19. Be aware of potential snagging points in the vicinity of the load whilst hoisting/lowering in restricted areas.
- 20. Be aware of wind speed and direction which could affect the lifting operation.

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THANK YOU FOR CHOOSING NCMT!

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