



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

COIMBATORE-35.



Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A++' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.

DEPARTMENT OF AUTOMOBILE ENGINEERING

COURSE NAME : 19AUE308 - SPECIAL VEHICLES

III YEAR /VI SEMESTER

Unit 4- Cranes and Special Utility Vehicle

Topic 2 : Mobile Crane



CONTENT



- Introduction
- Purpose
- Components
- Constructions



INTRODUCTION



- A mobile crane is a cable-controlled crane mounted on crawlers or rubber-tired carriers or a hydraulic-powered crane with a telescoping boom mounted on truck-type carriers or as self-propelled models.
- Mobile cranes are designed to use a collection of simple machines in order to both raise and lower objects, as well as to move them horizontally.
- This type of crane can be easily moved from one location to the next, making it a cost-effective rental option for many construction companies.
- Mobile cranes can be used to lift heavy objects and move them short distances



TYPES



- ❖ Hydraulic mobile cranes
- ❖ All-terrain cranes
- ❖ Rough terrain cranes
- ❖ Crawler cranes
- ❖ Carry deck cranes



NEED FOR MOBILE CRANE



- It is difficult to lift or hold the heavier objects by means of man power
- For that kind of scenarios, we can use mobile crane for lifting the heavier objects.



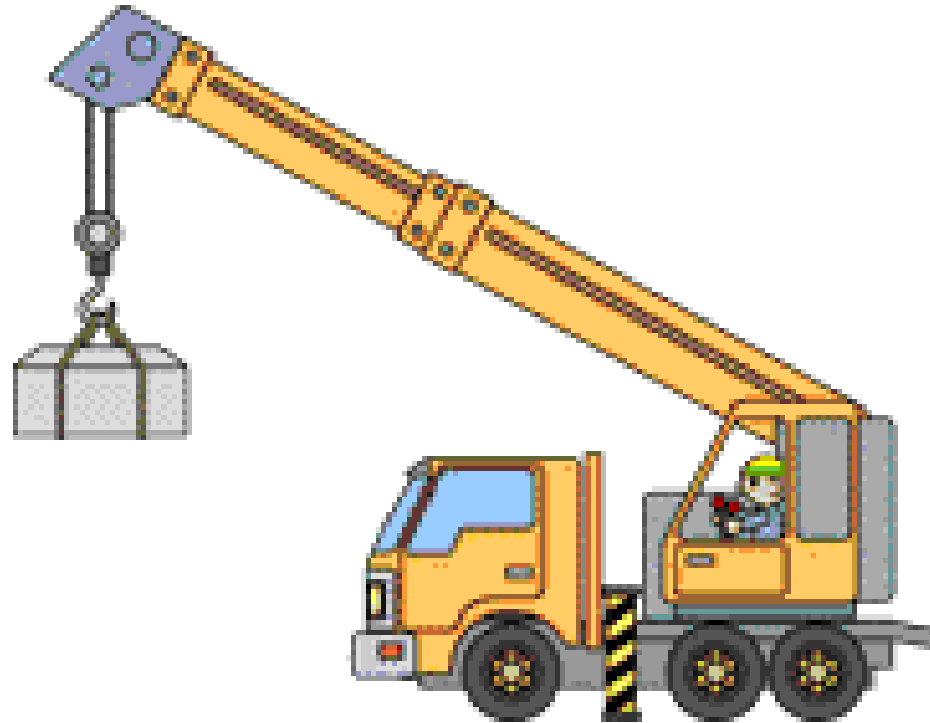


COMPONENTS





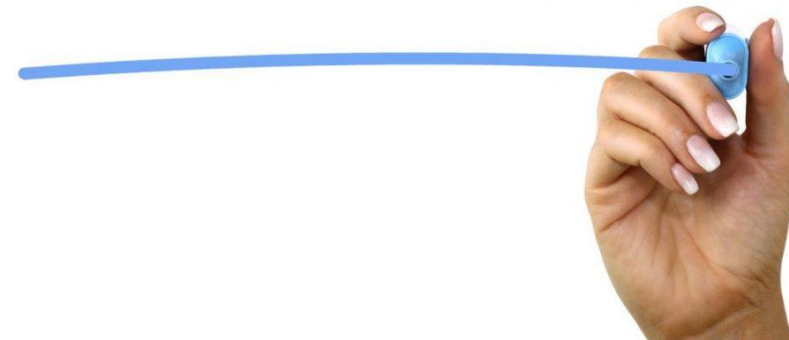
CONSTRUCTION & WORKING





1. Mention the components of Mobile crane
2. What is the purpose of Mobile Crane?
3. Is it possible to use it in at higher altitude places?

ASSESSMENT





REFERENCE



- <https://www.youtube.com/watch?v=zBUjn-exvns>
- https://en.wikipedia.org/wiki/Mobile_crane



THANK YOU !!!