

Industry 4.0

- Virtual reality, augmented reality
- Robotics
- Automation
- Internet of things
- Artificial intelligence
- Black chain
- 5G
- Mass customization
- Artificial intelligence
- ...

Write no less than 1000 words

Use references as possible

Topic:

- The expected effect that industry 4.0 would have on the manufacturing industry such as the cement manufacturing industry
 - Smart machines that are connected to each others and share data immediately between each other and to anyone in the company or other companies in the supply chain

Which would enable:

- Better coordination between different companies in the supply chain which can reduce wastes such as inventory
- Maintenance will be more efficient and effective which can improve further the productivity of the company
- Increase using robotics and automation which in accordance with the previous point can improve customization in the company
- Augmented reality glasses can be used to improve operation and maintenance and production as engineers and experts can diagnose, fix, improve a machine or an area from a distance location so things would get done faster and the company can always use the expertise of experts in different countries
- Ideas on how industry 4.0 can improve the cement manufacturing business model
 - Restructuring the company, in an automated company you dont need a structure that is based on function oriented (manufacturing department, electric department ...) or process oriented (production department, maintenance departments) because can get fewer employees and their expertise need to be broadened to cover multiple areas or sections so departments would be focus on objective/goals oriented as different teams can be gathered to deal with several

issues increasing the flexibility and efficiency of the workforce while only needing fewer workers