

CONTINUOUS PRODUCTION - CRUDE OIL TO FUELS AND PLASTICS

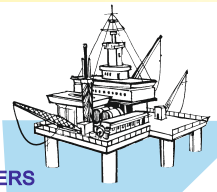
A PRODUCT IS MANUFACTURED CONTINUALLY, OFTEN 24 HOURS A DAY, 365 DAYS A YEAR. E.G. OIL TO PLASTIC PRODUCTS

SAMPLE PRODUCTS

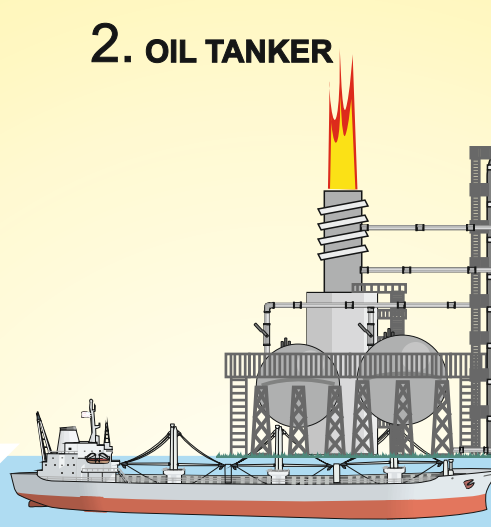
- CARS
- PETROL / OIL PRODUCTS
- BRICKS
- MANY FOOD PRODUCTS
- WASHING POWDER
- WASHING-UP LIQUID
- CARS
- CHEMICALS
- ELECTRONIC COMPONENTS
- PAPER / PULP PRODUCTS

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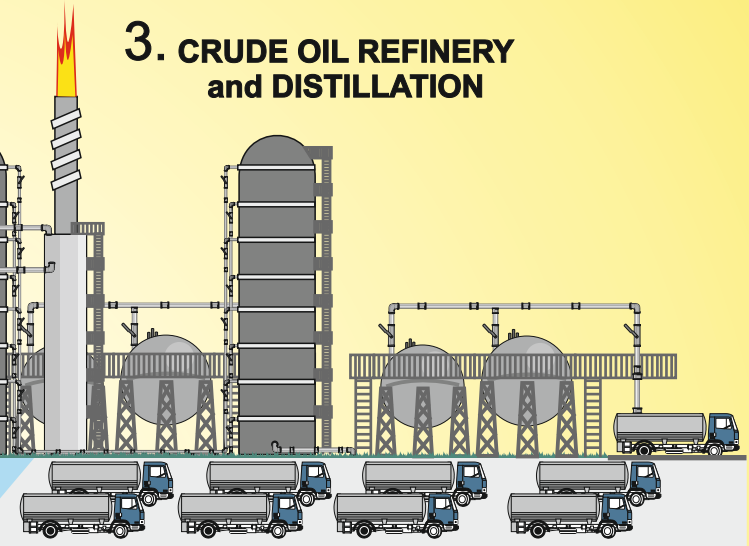
1. OIL FIELD



2. OIL TANKER



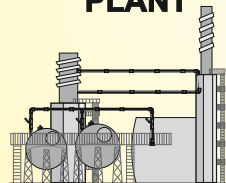
3. CRUDE OIL REFINERY and DISTILLATION



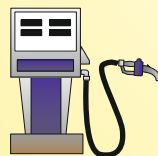
4. DISTRIBUTION



5. NAPHTHA / PLASTICS PROCESSING PLANT



PETROL STATIONS



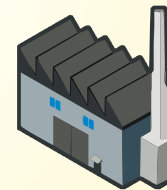
DOMESTIC HEATING



6. PLASTIC GRANULES



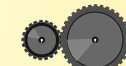
7. FACTORY



8. PRODUCTS



PVC
POLYVINYLCHLORIDE



NYLON



POLYESTER



POLYSTYRENE



POLYURETHANE
FOAM

POLYPROPYLENE

CHARACTERISTICS

1. A semi-automated production line is normally set up. Relying on computer control as well as human labour. 2. Workforce comprised of skilled and unskilled workers. Workers less flexible than those working in batch production as the product rarely changes. 3. Production line runs 24 hours a day, 365 days a year. 4. A high level of investment in machinery, equipment. 5. Limited training of staff as the product and equipment changes slowly. Training only needed when up-dated equipment is introduced or new staff start. 6. Quality control at every stage of production. Sampling takes place at different stages of production.