



CAPACITARTE

Es ser líder de tu vida



EJERCITACIÓN MÓDULO 1 – Clase 4

1. Explaining processes

1.1 What's your favourite film? Does it contain any special effects? How do you think they were created?


1.2 Read about a movie making process and number the pictures in the correct order.

Chroma Key


The chroma key process is used in the movie industry to create special effects. It enables actors and actresses to look as if they are in dangerous situations, when in fact they're perfectly safe. Here's how it works.

- 1** First, a green background is created in the studio. Often a wall and floor are painted green, or sometimes a fabric screen is erected. If it's fabric, extra care is taken to ensure that it's smooth and evenly lit.
- 2** Next, an actor or actress is videoed in the studio against the green background. They could ride a bike, hang from a ladder, or stand on their head, but they can't wear any green clothes. Only the background is green.
- 3** The video is then taken to the editing room. Because human skin is a warm colour with very few green tones, it's possible to select just the green background and replace it with a transparent layer. This is easily done with video editing software. (Sometimes directors prefer to work with blue instead of green. Both colours work well.)
- 4** The video is now ready to be combined with a new background scene. This could be a shot of a dangerous location like a fiery volcano, a tall skyscraper, or perhaps a fast-moving river.
- 5** The background scene is placed 'behind' the actor or actress and the two images are mixed. The director gets the exciting shot they need, but with no risk to the actor, actress, or the movie budget.


a




b




c



d



e



2. Causes

2.1 Read the news article below and answer the following questions.

- Why is the carbon needed in the steelmaking process?
- What problems does it cause the environment?
- Can you think of any ways to reduce the amount of carbon used in steelmaking?

Carbon-free steelmaking – is it possible?

Steel makes up 95% of all the metal made in the world, but the negative environmental effects of its production are also large. The industry generates roughly 5% of all greenhouse gases produced by human activity.

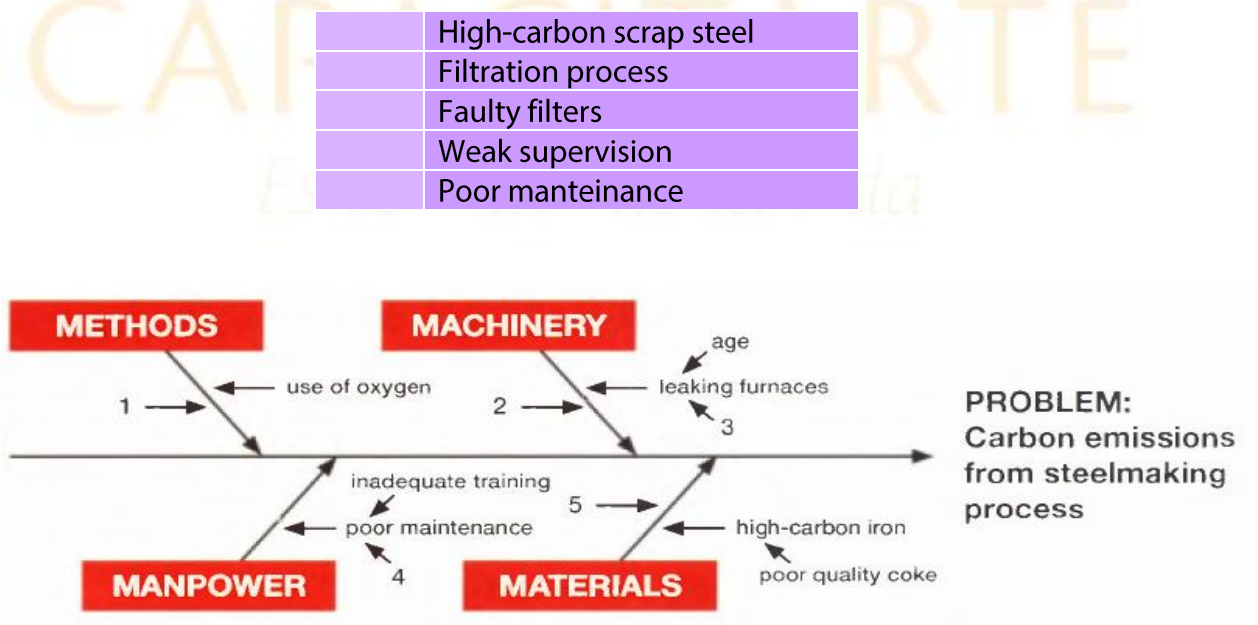
The problem is that carbon is required to provide the high temperatures needed to extract pure iron from iron ore (iron oxide) in the blast furnace. The carbon combines with the oxygen from the ore to form carbon dioxide, which is then emitted from the blast furnace. The iron which

emerges from this process still contains about 4% carbon, which makes it too brittle for most applications.

To change iron into tough and ductile steel, most of the remaining carbon has to be removed from the molten iron at a high temperature. The unwanted carbon then leaves the steel furnace in the form of further emissions of CO and CO₂ gases.

The world needs steel, but it also needs lower carbon emissions. How can this be resolved? Is carbon-free steelmaking a possibility?

2.2 Study this fishbone (cause and effect) diagram and try to complete it. Write the numbers 1-5 next to the phrases below. Note that an arrow indicates cause.



2.3 Now, refer to the diagram and Language Box below to choose the correct alternative in these sentences:

1. The leaking furnaces might **be caused by / be a cause of** poor maintenance.
2. Yes, poor maintenance could **result in / be due to** leaks not being repaired.
3. The high carbon emissions could **give rise to / be a direct result of** an inadequate filtering process.
4. Maybe, high carbon emissions are **due to / a major factor in** the high carbon content of the iron that's often used in steelmaking.
5. So the high carbon emissions could **result from / result in** high-carbon scrap steel being used as a raw material.

Decide on a problem you know something about and brainstorm possible causes and effects. Use a fishbone diagram to record your ideas.

Some ideas may be:

Unsuccessful meetings, problems between staff and managers, stressful situations, shortage of money, excessive workload, poor canteen food/service

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RESPUESTAS

1. Explaining processes

1.1 What's your favourite film? Does it contain any special effects? How do you think they were created?

Possible Answer

My favorite film is...., it contains some special effects such as I think they were created by using different software, such as...

1.2 Read about a movie making process and number the pictures in the correct order.

1. D
2. C
3. A
4. B
5. E

2. Causes

2.1 Read the news article below and answer the following questions.

- Why is the carbon needed in the steelmaking process? It is needed to provide the high temperatures necessary to extract pure iron oxide in the furnace.
- What problems does it cause the environment? Carbon production produces further emissions than necessary of CO and CO₂ gases.
- Can you think of any ways to reduce the amount of carbon used in steelmaking?

Possible answer

Improving filtering systems to lower carbon emissions in the steelmaking process.

Replacing the carbon by another mineral to provide the high temperatures required in said process.

2.2 Study this fishbone (cause and effect) diagram and try to complete it. Write the numbers of missing labels 1-5 next to the phrases below. Note that an arrow indicates cause.

5	High-carbon scrap steel
1	Filtration Process
3	Faulty filters
4	Weak supervision
2	Poor maintenance

2.3 Now, refer to the diagram and Language Box below to choose the correct alternative in these sentences:

1. The leaking furnaces might be *caused by* poor maintenance.
2. Yes, poor maintenance could *result in* leaks not being repaired.
3. The high carbon emissions could be a *direct result of* an inadequate filtering process.
4. Maybe, high carbon emissions are *due to* the high carbon content of the iron that's often used in steelmaking.
5. So the high carbon emissions could *result from* high-carbon scrap steel being used as a raw material.

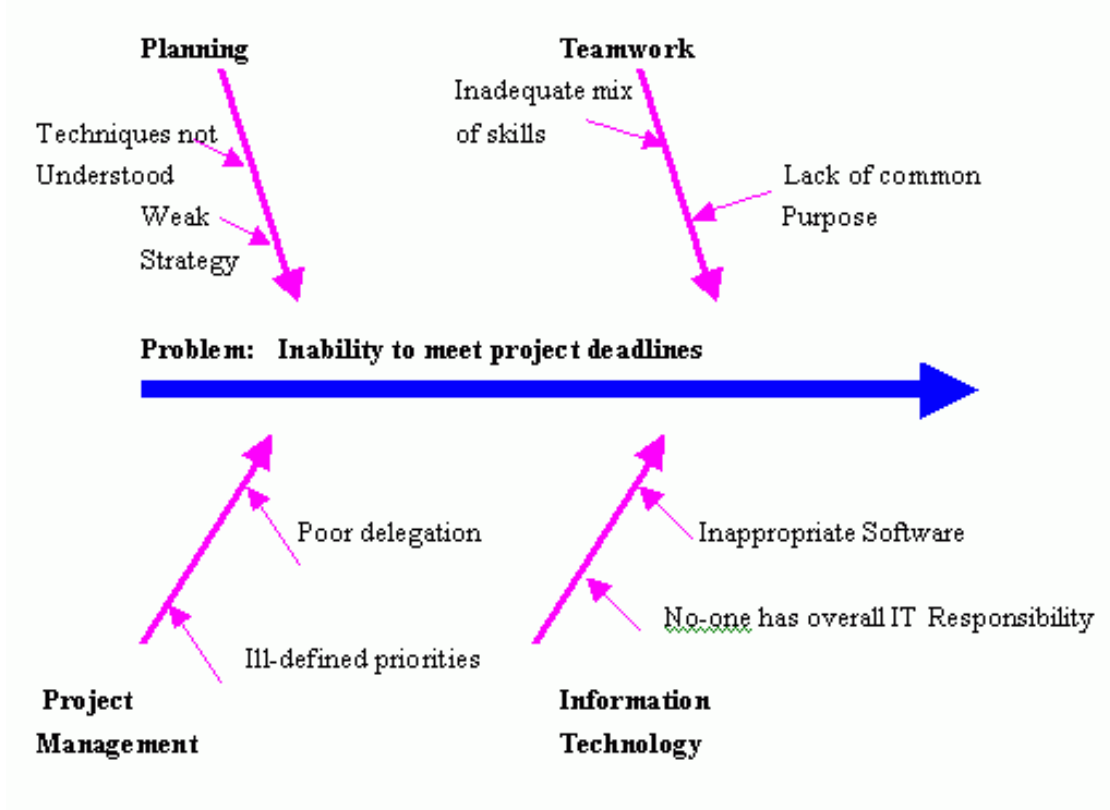
Decide on a problem you know something about and brainstorm possible causes and effects. Use a fishbone diagram to record your ideas.

Some ideas may be:

Unsuccessful meetings, problems between staff and managers (late for work), stressful situations, shortage of money, excessive workload, inability to meet deadlines, poor canteen food/service

Possible ideas

Inability to meet project deadlines



Staff arriving late for work

