

**BACCALAURÉAT PROFESSIONNEL - SPECIALITE
TECHNICIEN EN REALISATION DE PRODUITS MECANIQUES
SUJET N°1**

Durée de l'épreuve: 40 minutes

- Préparation	- 20 minutes
- Phase 1 : Présentation de la situation proposée ci-dessous	- 10 minutes
- Phase 2 : Entretien sur les activités et travaux effectués dans la discipline non linguistique durant l'année de terminale	- 10 minutes

SITUATION :

You work as a technician and you have seen problems in the manufacturing processes of the company. Share with your team the Fisbone diagramm tool (one of the most useful tool in solving process problems).

Explain them how it works and how to use it.



[Home](#) > [Manufacturing Glossary](#) > Fishbone Diagram

Everything You Need to Know About Fishbone Diagrams

Discover all you need to know about fishbone diagrams in manufacturing, including how to make them, their benefits, and some frequently asked questions.

What is a fishbone diagram in manufacturing?

A **fishbone diagram** is a visual brainstorming tool that's used in manufacturing to detect the cause(s) of an issue. It is also commonly referred to as an Ishakawa diagram or cause-and-effect diagram. The fishbone diagram is used in manufacturing as a **root cause analysis and quality defect prevention tool**. It is one of the [seven basic tools of quality](#).

What is a fishbone diagram used for in manufacturing?

A fishbone diagram is used in manufacturing to **assist in the process of pinpointing the root cause** of a problem. Due to its clear structure, it helps organize ideas thought up during a brainstorm. Furthermore, its categorical structure stimulates the thinking up of alternative explanations and gives the people performing the analysis an overview of the **full scope of possible causes**.

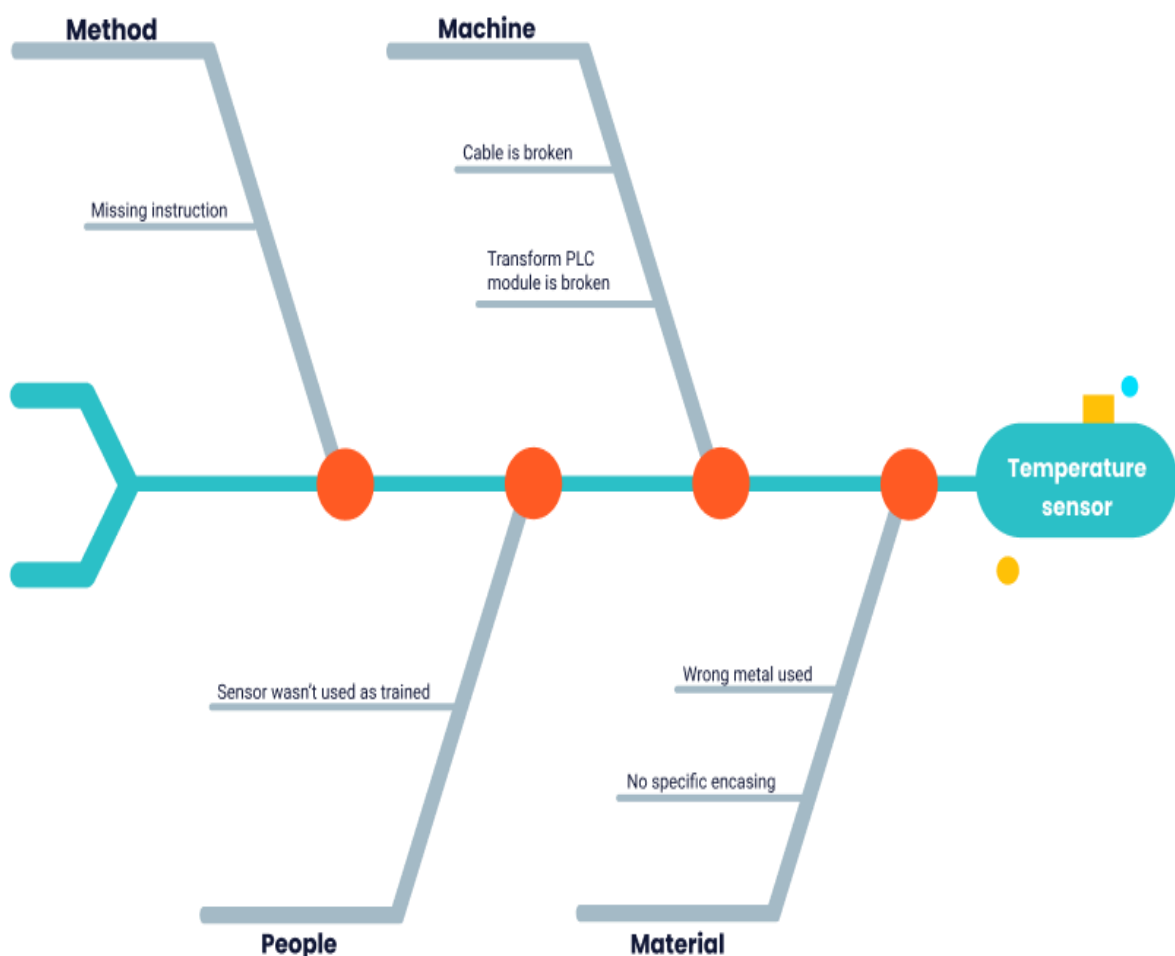
How do you make a fishbone diagram?

While reading this article, you may have wondered why this root cause analysis tool is called a 'Fishbone diagram.' It all comes down to the visual construction of this technique, which resembles a fish skeleton. For those among you who have little experience in drawing fish skeletons, we'll quickly walk explain **how you can create your own fishbone diagram** and give you some tips on how you and your team can perform the perfect fishbone diagram analysis.

To make a fishbone diagram, all you need is a pen and paper or marker and whiteboard, or a digital brainstorming tool like Lucidspark.

The far-right side of the diagram—to which the horizontal line points—states the problem an analysis is focused on, for example: "batches of product X occasionally contain traces of plastic." The largest branches of the diagram are the main categories. In manufacturing, these generally consist of the **four or five Ms** (material, man, method, maintenance, management). The smaller branches under each category list possible causes. Under Man, for instance, a cause to this problem could be "failure to adhere to [standard operating procedures](#)."

Fishbone chart



Source : <https://4industry.com/manufacturing-glossary/fishbone-diagram-manufacturing/>