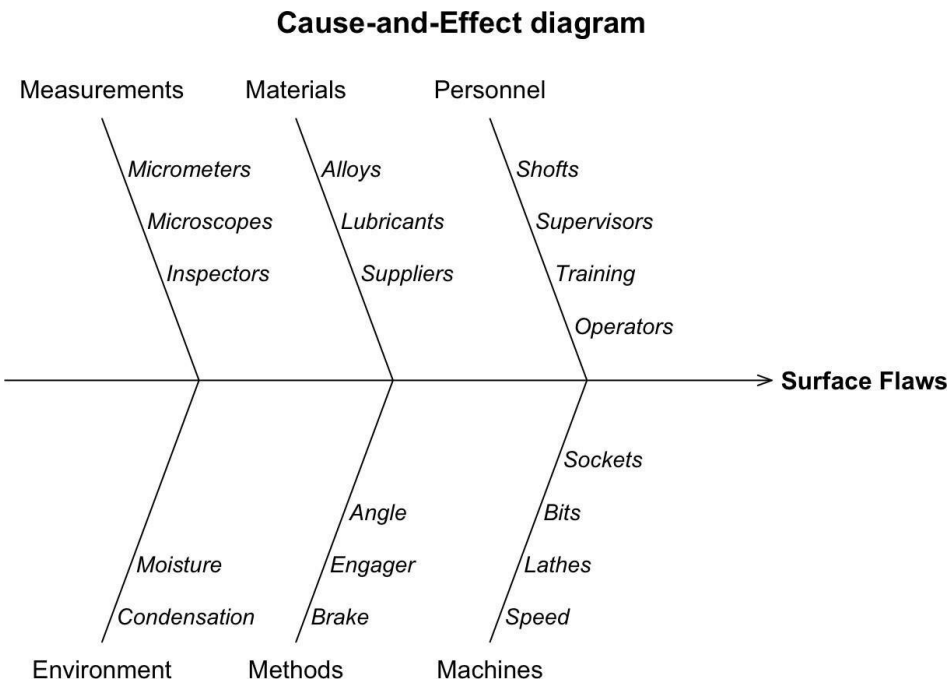
Clase: Diagramas de Ishikawa

```
# Se activa librería qcc
library(qcc)
```

```
## Package 'qcc', version 2.6
## Type 'citation("qcc")'  for citing this R package in publications.
```

```
# Se elabora el diagrama de Ishikawa
cause.and.effect(cause=list(Measurements=c("Micrometers",  "Microscopes",  "Inspectors"),
                            Materials=c("Alloys",  "Lubricants",  "Suppliers"),
                            Personnel=c("Shofts",  "Supervisors",  "Training",  "Operators"),
                            Environment =c("Condensation" ,  "Moisture" ),
                            Methods=c("Brake",  "Engager",  "Angle"),
                            Machines=c("Speed",  "Lathes",  "Bits",  "Sockets")),
                 effect ="Surface  Flaws" )

## Otro método:
library(SixSigma )
```




```
# Se elabora el diagrama effect <- "Flight Time" causes.gr <-
c("Operator", "Environment", "Tools", "Design",
               "Raw.Material", "Measure.Tool")
```

```
causes <- vector(mode = "list", length = length(causes.gr))
causes[1] <- list(c("operator #1", "operator #2", "operator #3"))
causes[2] <- list(c("height", "cleaning")) causes[3] <-
list(c("scissors", "tape")) causes[4] <- list(c("rotor.length",
"rotor.width2", "paperclip")) causes[5] <- list(c("thickness",
"marks")) causes[6] <- list(c("calibrate", "model"))
ss.ceDiag(effect, causes.gr, causes, sub = "Paper Helicopter Project")
```