

# 10 Steps in Statics

## STEP 1

Overview the real situation : Have a good Look e.g. boundaries.

## STEP 2

Study on directives and applicable standard(s).

## STEP 3

Make the scheme and multiply expected loads with the correct safety factor in compliance with the standard (work out dimensional uniformity).

## STEP 4

Make your Free Body Diagram + define xyz-coordinate system.

## STEP 5

Formulate your equilibrium equations.

## STEP 6

Solve the equations and check if you believe the results.

## STEP 7

Draw all internal forces and -moments.

## STEP 8

Find place(s) of max occurring stresses  $\sigma$  and  $\tau$ .

## STEP 9

$\sigma < \bar{\sigma}$  and  $\tau < \bar{\tau}$  and combined:  $\sigma_i < \bar{\sigma}$ ?

## STEP 10

**Final check:** Do you believe the results?



### Personal study advice

We are happy to advise you on which training is best for you.  
Call or e-mail for personal study advice.

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