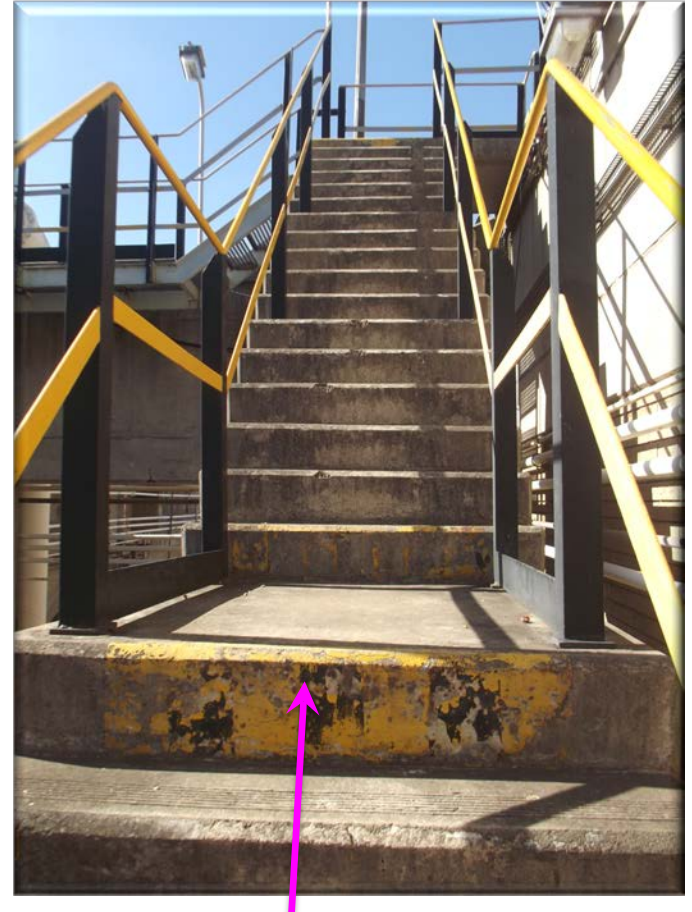


IOD LTI – 24 April 2023: GTL Refinery

- Water Treatment Plant - Sandfilter @ 12H00 -

What Happened.

- o Employee was climbing up the concrete staircase to the flocculation channels.
- o He felt a pain in his left calf muscle, but he could still walk upstairs.
- o His left calf muscle progressively tightened, he reported to Medical Station and saw the doctor the next day.
- o Employee returned to work after 7 days.



Staircase with 33 steps at Flocculation Channels

Why Did It Happen.



Flawed Method / Haste / Routine Activity without Thought



Stair Design per SANS Standard



Boots & Sole in Good Safe Condition



Temp Mixing Tank / MOCA in place.

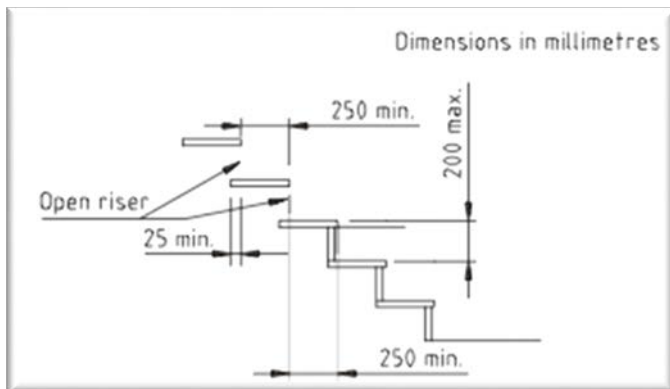
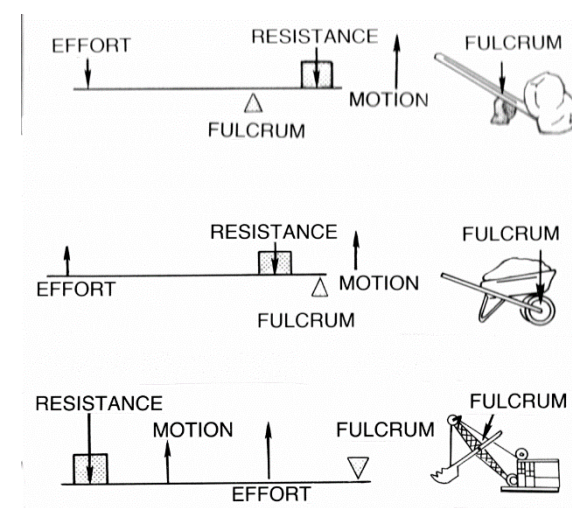
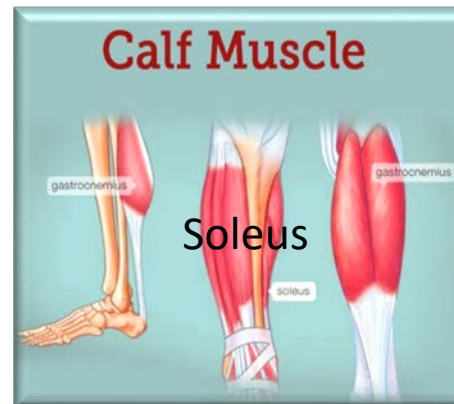


Faulty Pump per MOCA

Why Did It Happen.



- o **Calf Strain:** The calf is made up of 2 muscles called the *gastrocnemius* and the *soleus*. Overstretching or tearing either of these 2 calf muscles is known as a calf strain.
- o Walking Up and Down a staircase:
 - o Methodology is 1 step at a time because the design of the staircase *does not* prevent calf strain if you leap 2 steps at a time..



Stair Design per Standard

IOD LTI – 24 April 2023: GTL Refinery

- Water Treatment Plant - Sandfilter @ 12H00 -

Why Did It Happen.

- o Flawed Method of Ascending Staircase:
 - o One step at a Time – Always!
- o *Perceived Haste: Routine Activity without thought.*
- o Contributing Factor: 33 Steps on 2-tiered staircase - frequent use because of temporary mixing operation on top of flocculation channels.

Corrective Actions.

- o *Debriefing with injured : by Safety Base completed.*
- o *Issue IOD Flash and Toolbox Talk – this week – by Safety Base.*

Lesson's Learned..?

- o *Climbing UP a flight of stairs also requires safe behaviours – i.e. 1 step at a time with 3-point contact at all times - per on plant safety procedures.*