



Smart Tooling

Workshop Werkplaats Innovatie

Proceedix & Iristick



Reality@work



CLEANING INSTRUCTION CARD		Job No.
Location	MSUR 00A	MSUR 00A
Equipment	Hot Smoke Unit Low Risk	Priority
Work to be done	Reset Kilo D and Smoke Box	Author
Responsible / Assistant	My job: Myself / Job Assessment	Cleaning Equipment Required
1. Created by	Myself	1. Safety
2. Approved by	Supervisor	2. Tools
3. Approved by	Supervisor	3. PPE
4.		4. Other
5.		
Special Instructions / Precautions		Personal Protective Equipment
<ol style="list-style-type: none"> Capable to hold back any spillage that has been released. Must handle safely in case of release. Full PPE must be worn. Dry cleaned contents & carry out CP. 		
Designated Application		Unintended Application
On Designated Use of Cleaning		On Designated Use of Cleaning
Foamberg Super (MSUR Assessment No. 100) Use (P2) 101 Type (P2) 101 Inhalation Corrosive Irritant Harmful	Milo Chlorox F2 (MSUR Assessment No. 100) Use (P2) 101 Type (P2) 101 Inhalation Corrosive Irritant Harmful	
<ol style="list-style-type: none"> Ensure kilns empty and Low Risk. Ensure no production is being carried out. Remove any gross debris and put in container. Wipe all surfaces with clean fresh water removing debris. Ensure pressure gauges in the smelt charging pressure to operate the self should indicate 4 bar. Wipe kiln remove ceiling grills and fix for cleaning. Remove caps on the ceiling of the KI bins. 	<ol style="list-style-type: none"> Remove any gross debris and put in container. Apply a 20-5% (Foamberg / Chlorox) solution to the smoke box as all areas. Allow a minimum of 20 minutes. Scrub any stubborn deposits. Brush paying particular attention underneath and inside of the box. Give a fresh clean water rinse all chemical residues. Visually inspect to ensure all foam debris. Recheck if necessary. Sprays all surfaces with a 1% dilute to air dry. Replace removed parts. 	
SMOKE BOX <ol style="list-style-type: none"> Open smoke box door and remove a catch plate and scrub to clean surface. Remove and wash or scrub off in a suitable waste container. Wipe smoke box with clean fresh water to remove any remaining debris. 	<ol style="list-style-type: none"> Place a drum of fresh Foamberg room and place the catch-plate. 	
Other Information		Key Inspection Points
Take temperature reading during cleaning cycle, record date		<ol style="list-style-type: none"> Catch-plate Smoke box Pressure gauge Smelt box Smelt bin Smelt heap Smelt floor plate Catch-plate
CONTROLLED DOCUMENT		



Documents@work

No execution trace



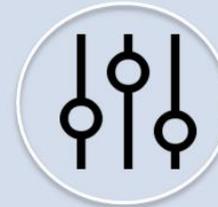
Not matching with real workflow



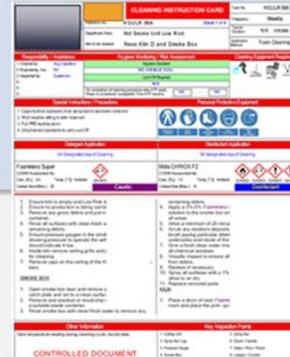
No/limited feedback



No content personalization



ENTITY=DOCUMENT



LAYOUT = PAGE



Good for reading
Not while working



Not compatible with wearables



Not compatible with personal assistance tech



Environment@work

- ▶ @ shop floor/field

- ▶ PPM requirements?
- ▶ Safety risks?
- ▶ Tools at hand?
- ▶ Shift=8hrs



- ▶ @ classroom

- ▶ Secure environment
- ▶ Controlled situation
- ▶ Lesson=1hr





Guiding@work



Clear language & **snackable** in a blink



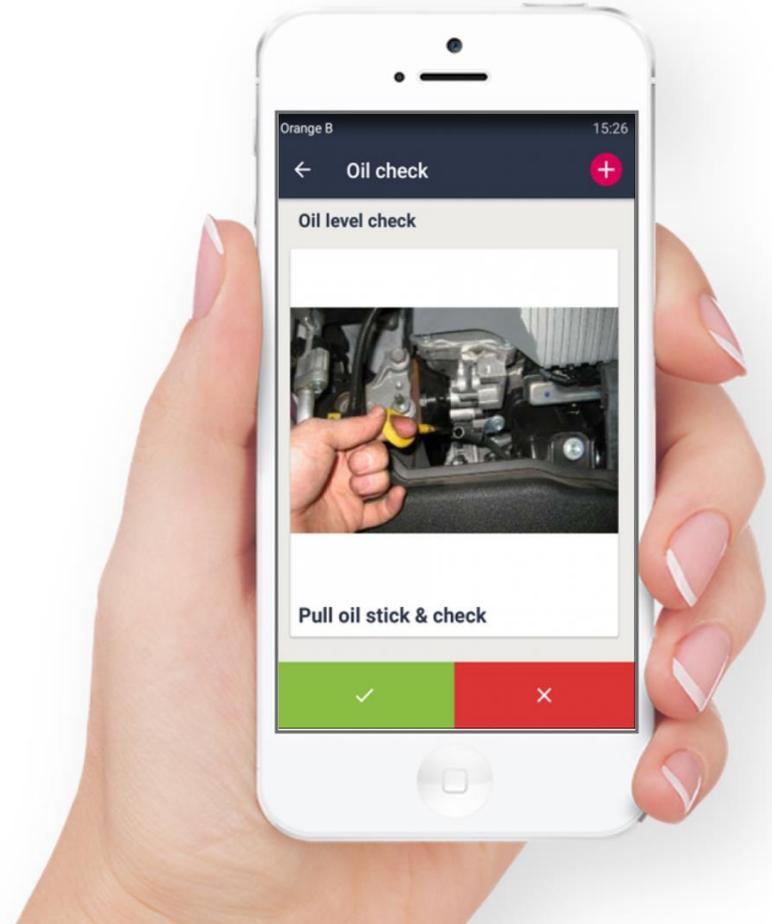
Accessible while working (mobile/wearable)



Matching my real **workflow**



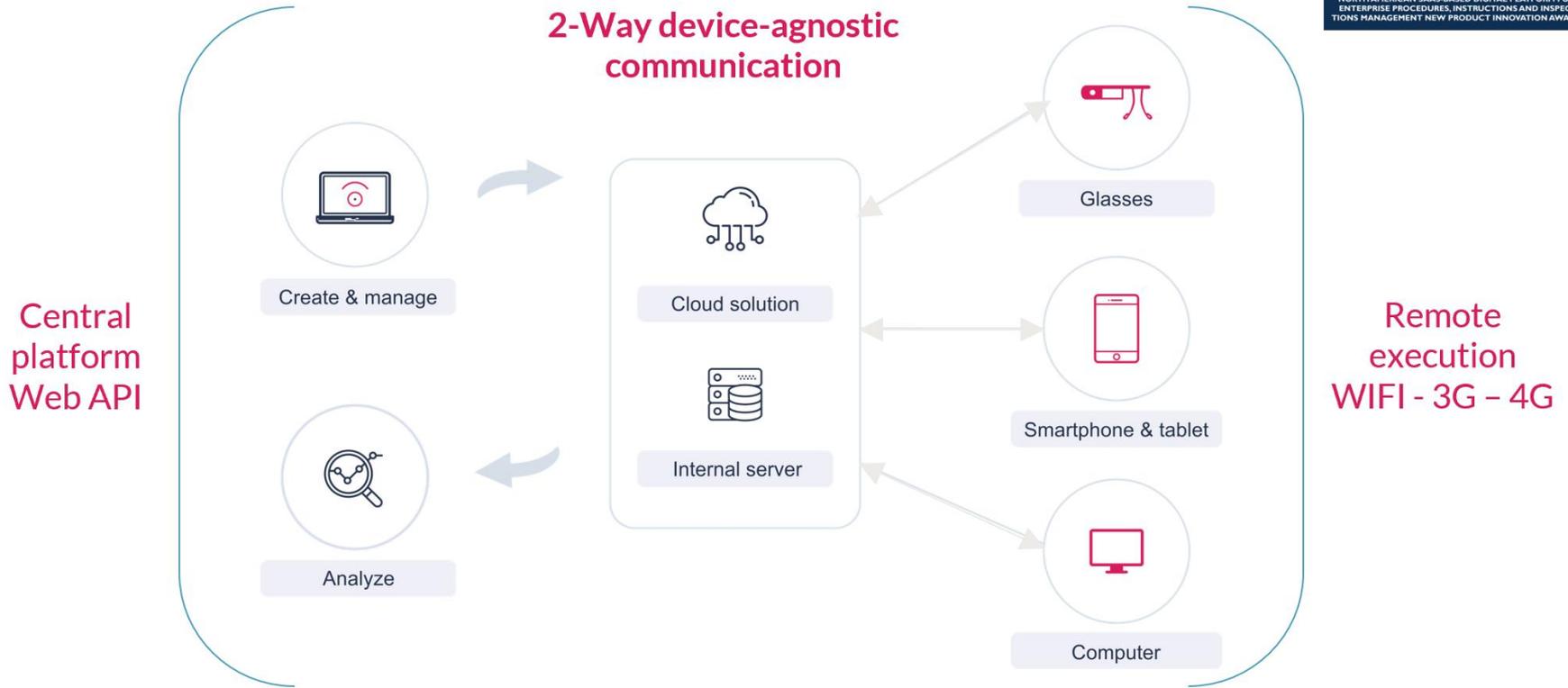
Matching my information needs (skill level)





Proceedix@work

A DIGITAL WORKFLOW PLATFORM



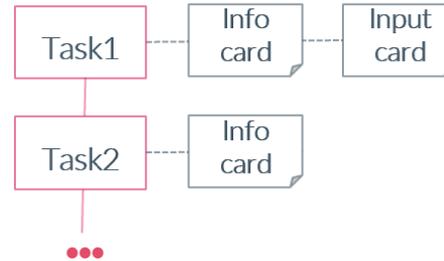


Core@proceedix

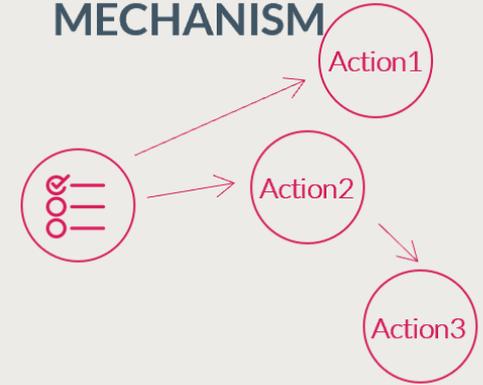
DYNAMIC CONFIGURATOR



WORK FLOW



ACTION MECHANISM



EXECUTION LOGGING MECHANISM

workflow



operator



case



time

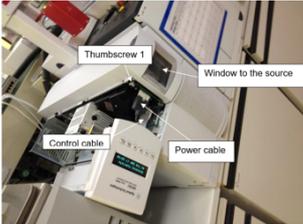


location





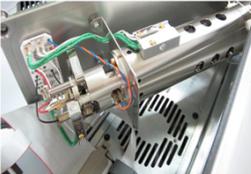
From document to workflow



Remove the upper cover of the MS.
Vent the MSD.

From the Tune and Vacuum Control view, select VACUUM MENU / VENT.
Turn off the oven temperature (50°C), Inlet-F temperature (FID) and the AUX-2 temperature (interfase).
When prompted, turn off the MSD power switch.
Open the source view window cover.

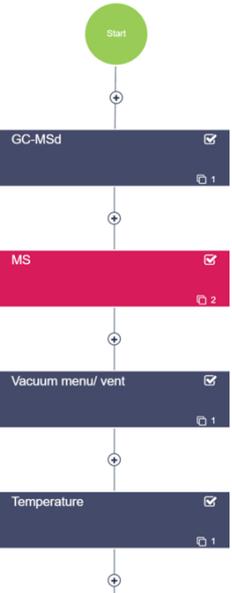
Turn the vent valve knob counterclockwise only three-fourths turn or until you hear the hissing sound of air flowing into the analyzer chamber.
Disconnect the side board control cable and the source power cable from the side board.
Loosen the front side plate thumbscrew (the rear should be fastened only during shipment).



P-001854 216 459/2016

GC-MSd: Clean the source

80%
Reset to default



```
graph TD; Start((Start)) --> GCMSD[GC-MSd]; GCMSD --> MS[MS]; MS --> Vacuum[Vacuum menu/ vent]; Vacuum --> Temperature[Temperature];
```

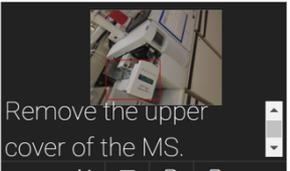
Task properties

Name: MS

Description: Description

TASK EDITOR / Edit MS

Info - Image



Remove the upper cover of the MS.

Options



Workflow execution



Cleaning Instruction Smoke Boxes

🔍 90%

Reset to default





Glasses@work



 Remote assistance by central expert desk



Unscrew yellow screw

 Handsfree information/instruction support



Mesure voltage



Smart glasses technology

- ▶ AR-MR Goggles/glasses



Classroom

- ▶ Assisted Reality Glasses



Shop floor/field



comfort@wearer



 **iristick**

- Comfort
 - 72 gr
 - Red Dot Design Award
 - Bendable ears
 - Adjustable nose pads
- Safety certified
 - EN-166
 - ANSI Z87.1
- No heat or WiFi near temple



Features@Iristick



- Central camera
- 5x optical zoom, laserpointer and flashlight
- Touchpad
- Embedded microphones and speakers
- 3-axis adjustable display





Why Proceedix?



EXECUTION FOCUS

Designed for deskless
people at work



WORKFLOW POWER

Guiding processes
and escalation
actions (patent)



DEVICE AGNOSTIC

Leveraging desktop,
mobile and
wearable
technology



ENTERPRISE ARCHITECTURE

Integration API and Micro-
services architecture to
embed and to customize

The only device agnostic platform capable to guide deskless workers executing complex instructions and inspection processes



Why Iristick?

- ➤ Most comfortable frame: **balanced & lowest weight**
- ➤ **6 times** the **battery life**
- ➤ Over **4 times** the **processing power**
- ➤ Over **10 times** the **zooming power**
- ➤ **4000 times** less BT/Wifi **radiation** near temple
- ➤ **Heat dissipation** near temple **36% lower**