



**ITANOVIN**  
INDUSTRIAL ENGINEERING & SOLUTIONS

# CEILING MANAGEMENT MANDATORY SAFETY

## WHAT IS CEILING MANAGEMENT?

Starting January 2018, ITANOVIN Company has set out to initiate and complete projects in the interior design and maintenance services sector.

With a broad vision of the present but also of the future, our company came to support Carnival Cruise Lines with a pilot project proposal, named "CEILING MANAGEMENT".

Is an avant-garde project thought and put into practice by ITANOVIN Company. Is a huge support for other major projects such as the replacement of drainage pipes, the installation of surveillance cameras and WIFI antennas, the checking of wall penetration and so on ...

As a result ... there has been an increase of 30% to 35% of labor productivity in projects taking place in the upper closed area of the ceilings.

All projects are completed by contractors eliminating the dead time of the teams involved in the works. The contractors teams are not required to prepare the work areas, so the focus can be on the work itself.

**Trained and qualified  
personnel ... and the  
5 minutes RULE**

One of the most challenging issues is qualified staff for such projects. Itanovin Company has in its organizational structure qualified teams for the ceiling management project, so the probability of error is reduced due to regular trainings.

The use of personal protection equipment, the use of appropriate means of communication among team members, the protection of surfaces in the work area, the panels protection, the numbering and identification system of each piece, the safe storage

Is a PDCA (+A) four-step management method used for the control and continual improvement of processes and products.

**A=ACT:** If the check phase shows that the plan phase which was implemented in do phase is an improvement to the prior standard (baseline), then that becomes the new standard (baseline) for how the organization should act going forward (new standards are thus said to be ENACTed). Instead, if the check phase shows that the plan phase which was implemented in do phase is not an improvement, then the existing standard (baseline) will remain in place. In either case, if the check phase showed something different than expected (whether better or worse), then there is some more learning to be done... and that will suggest potential future PDCA cycles.

**IP=PLAN:** The planning phase involves assessing a current process, or a new process, and figuring out how it can be improved upon. Knowing what types of outputs are desired helps to develop a plan to fix the process. It is often easier to plan smaller changes during this phase of the plan so that they can be easily monitored and the outputs are more predictable.

**TD=DO:** The do phase allows the plan from the previous step to be enacted. Small changes are usually tested, and data is gathered to see how effective the change is.

**TC=CHECK:** During the check phase, the data and results gathered from the DO phase are evaluated. Data is compared to the expected outcomes to see any similarities and differences. The testing process is also evaluated to see if there were any changes from the original test created during the planning phase. If the data is placed in a chart it can make it easier to see any trends if the PDCA cycle is conducted multiple times. This helps to see what changes work better than others, and if said changes can be improved as well.

**(+A)= ADJUST:** The adjust phase is the alternative version of the act phase. Once PDCA has been run multiple times, the process generally has enough information for it to be considered a new standard. This is usually completed in the act phase. The adjust phase allows the process to continue to be monitored after the changes have been implemented and fix them accordingly. Doing this lets the PDCA cycle truly be for continuous improvement instead of changing a process and letting it become inefficient again.

for our own team and for the teams of contractors who later take part in their own projects, the safe fitting using the appropriate tools for the installation of the ceiling panels, the care for the well done work and the exceptional results of the projects we took part in, we believe we qualify for the following projects. Last but not least, we must mention our ability to respond to any request for dismantling the ceilings within a maximum of 5 minutes.

**IF SHOULD BE A RULE... OURS IS... A 5 MINUTES RULE**

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... and this 5 minute rule even worked out! Why? Is simple! In Dry Dock, the biggest enemy is ... time. There is no time to lose. With our response in the maximum of 5 minutes, we give the other contractors the opportunity to work in their own work safety conditions, thus not being pressed by our possible delays.

Delaying certain stages in existing projects leads to ACCIDENTS. We are committed to informing team members whenever necessary, work safety sessions being held at every beginning and end of work schedule so that in the last year we had the performance of not having any incident or accident.



**PENETRATION**

**LIGHTING CABLE**

**WI-FI ANTENA**

**DATA CABLES**

**DRAIN LINES**

**WATER PIPES**

**WATER PIPES**

**ELECTRIC WIRES**

**DRAFT STOPS**

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## SAFETY 1-ST

The components of lighting systems, drinking water lines, drains, cables, and last but not least, penetrations and draft stops appear from the ship's communication and safety system. Destruction of one of these components leads to delays in the following processes, work steps, leading to accidents, possible disasters in case of fire. It is vital to know the process, it is vital to inform and be informed, so interdepartmental communication is mandatory. We know that, we do it well ... and we'll do it again!

**THANK YOU FOR YOUR  
TRUST!**

