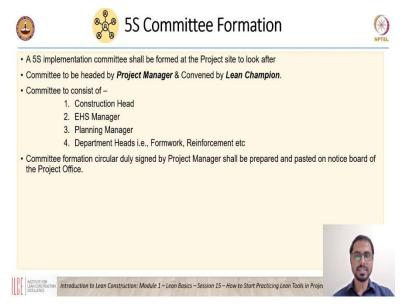
Introduction to Lean Construction Professor: Mr. Saurav Jha Indian Institute of Technology, Madras How to Start Practicing Lean Tools in Project Sites-1: 5S

Hi guys, this is Saurav Jha from L&T construction. I am going to explain about the 5S implementation at Project sites. So, the typical 5S implementation consists of five steps where in it starts with 5S committee formation, then the audit format preparation, then the team formation for your 5S Audit walk down. And during the 5S of audit walk down on what are the steps to be taken, and finally, the reports and compliances.

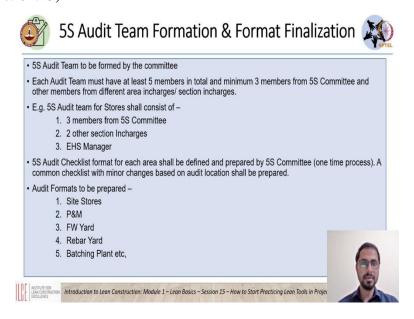
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Starting with 5S committee formation, it should be headed by project manager and convened by lean champion or the 5S champion at the project site. The committee should also consist of construction heads, EHS manager, planning manager and other department heads such as formwork or reinforcement. It is committee formation, once it is done should be duly signed by the project manager and it has to be pasted on the notice board on the project site where in each and every staff of the project site should be aware of the same.

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The next step would be 5S audit information. The 5S audit team which is going to have the walk down at site should consist three members from the 5S Committee which has formed at the beginning and then two other section incharges from different areas and the EHS manager other than these people, we can also have few more people depending on the requirement from site

After the 5S Audit team is being formed, there should there is also a requirement of 5S audit checklists to be prepared. These audit checklists are a typical Audit Checklist where in there could be some points which may not be relevant to each and every area. So, we can have this audit checklist form it prepared for site stores, P&M, FW yard, Rebar yard, Batching plant et cetera. And also for the building areas.

5S Audit Checklist Format 58 Audit Checklist Area Audited: Name of Project: Audit Date: Reference: PQP/8.1-C/GL-01/F-07 Auditor(s): Comments/Actions to Action Verified be taken Taken Signature Have all the unnecessary items (tools, machines, boxes, etc.) Are tools and equipment located in the most convenient location? Is the work area properly managed? - (fully up to date? Comments/Actions to Action Verified 1 2 3 A place for everything and everything in its place.... be taken Taken Signature Are walkways and work areas clearly defined and unobstructed? Are personal belonginings and Safety PPEs stored in designated areas? Safety Equipments - Are all safety equipment in place and up to

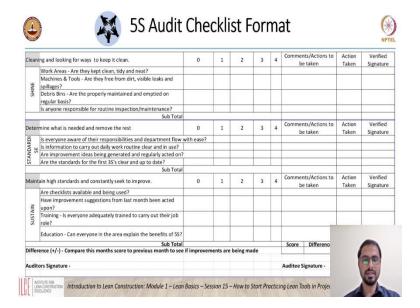
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So, typical 5S Audit checklist looks like this, wherein you will have place to fill the name of the project, area audited, audit date, for auditors and then reference this can be relevant to the reference format that has been followed at site. And then the auditees name. Here you can see for each S we have several points mentioned here, which are to be rated from 0 to 4 to 0 stands for no compliance and 4 stand for total compliance.

Introduction to Lean Construction: Module 1 – Lean Basics – Session 15 – How to Start Practicing Lean Tools in Project

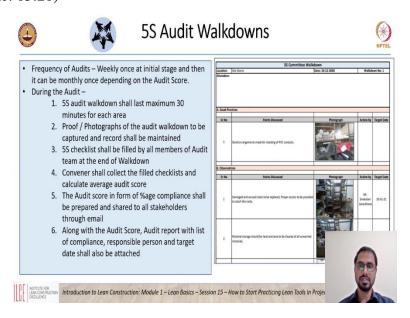
Other than that, right said we can also see where we have options of comments and action to be taken during the 5S audit walk down. The auditors can try down the points here wherein they want some improvement in each particular point is to be noted here.

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And other SSR also considered here. And after which you can see at the bottom level you will have the subtotal of each individual S's. If it is your second walk down then you can also have a difference of the 5S score from your last walk down, we can we can also see the improvement at site after which auditor signature and auditee signature should also be done.

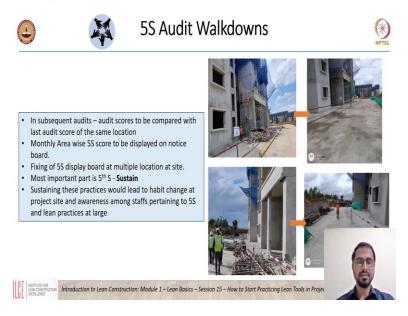
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During the walk down there are several points that are to be considered in mind. The walk down should not last more than 30 minutes, it has to be quick where in all areas to be also considered

when the photographs to be taken for proof and the checklist filled by each and every member of the audit team should be collected. The average percentage score should be calculated by the Lean champion or maybe 5S champion, the audit score audit report and the compliances should be circulated through mail to all the stakeholders.

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So, you can see the before and after effects of 5S audits. Also there are several points that are to be considered and kept in mind which are monthly area by service score to be displayed on notice board. And most important part is 5thS that is sustain. These practices would lead to habit change at site level or also the awareness. This would help in the betterment of site and also 5S implementation will be effort. Thank you.