



Pioneer Steel Services, Inc.

2020 INSPECTION CONFERENCE QUALITY AUDITING VS INSPECTING PRESENTATION

Lee A. Pielact | January 22, 2020



Bid



OVERVIEW

Meet the Presenter

My Story

Definitions

Quality Management System

Looking over the process

Audit Cycle

Audit Planning and Strategy

Field work

Analysis

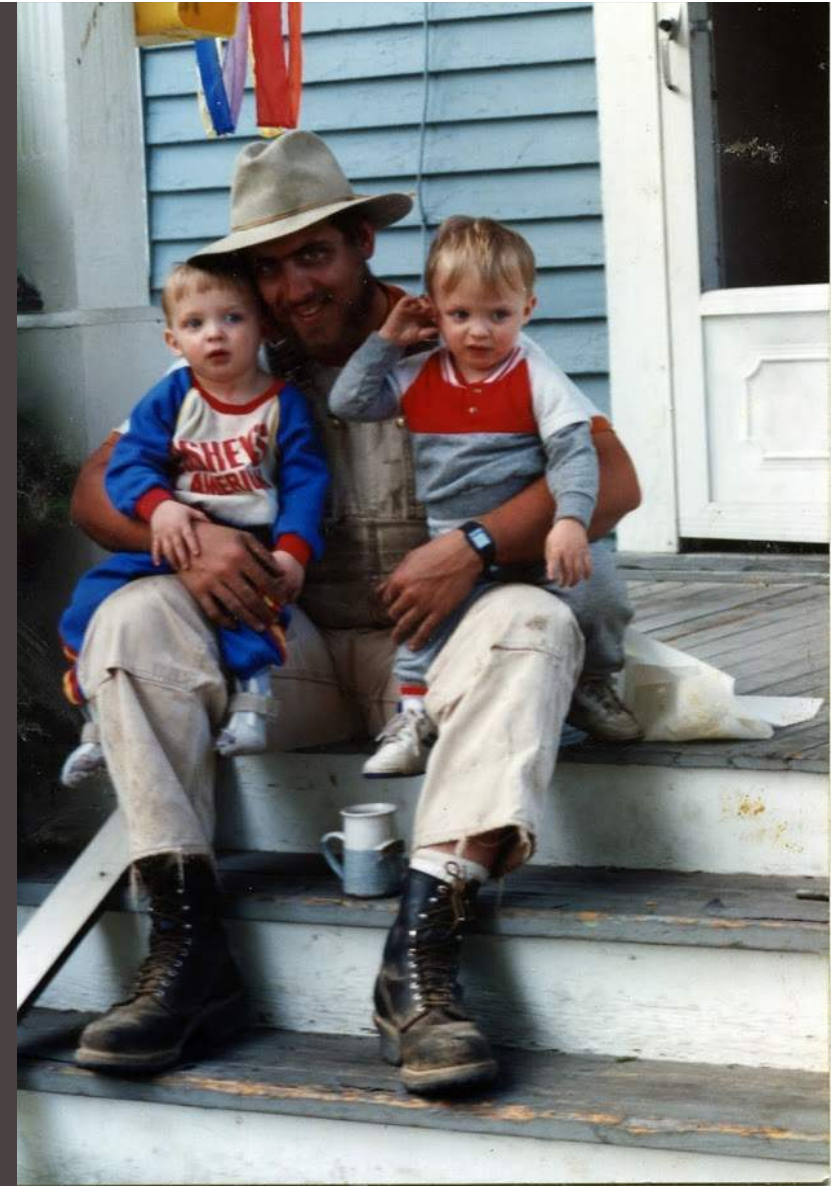
Exercise your professional judgment!

Key Takeaways

Tips for “auditing”

Thank You

1988 WORKED FOR
ROSCOE STEEL &
CULVERT CO. NOW
TRUE NORTH
FOR 14 YEARS
8 MONTHS
1995 WAS ALSO
CONCURRENTLY THE
OWNER/OPERATOR
OF PIONEER
INSPECTION
SERVICES FOR 7
YEARS





Group photo taken during AISC Building Standard
(2002 edition) beta audit in Syracuse NY - July 2003

TRANSITION
FROM WELD
INSPECTOR TO
QMC AUDITOR

A portrait of Lee A. Pielaet, a middle-aged man with grey hair and glasses, wearing a light blue button-down shirt. He is smiling slightly and looking towards the camera. The background is a blurred outdoor setting with some greenery. On the left side of the image, there is a dark grey rectangular box containing text. On the right side of the image, on the man's shirt, there is a logo for Pioneer Steel Services, Inc. featuring a globe and the text "Pioneer Steel Services, Inc. AISC Certification".

**LEE A.
PIELAET**

President of Pioneer Steel Services, Inc.
Helping Companies Achieve, Manage and
Upgrade their AISC Certifications.

AWS CWI since 1995 and conducted over 1100
Audits for the American Institute of Steel
Constructions certification Programs.





DEFINITION OF INSPECTION



Per the new ISO 9000:2015 standard. Inspection is “Determination of conformity to specified requirements”



Inspection is associated with inspecting a product or a service to make sure it is right.



Weld inspection visual or NDE is a great example of Inspection.

Does the specific weldment conform?



DEFINITION OF AUDIT



Per the new ISO 9000:2015 standard. Audit is “systematic, independent and documented process for obtaining objective evidence and evaluating it objectively to determine the extent to which audit criteria are fulfilled”



Auditing is associated with a higher-level review of the system that is designed to produce and inspect the product or service.



An audit of a manufacturing process. This can be start to finish.

Quality Management System

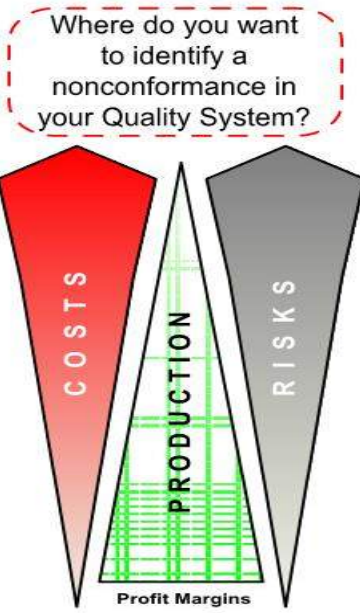
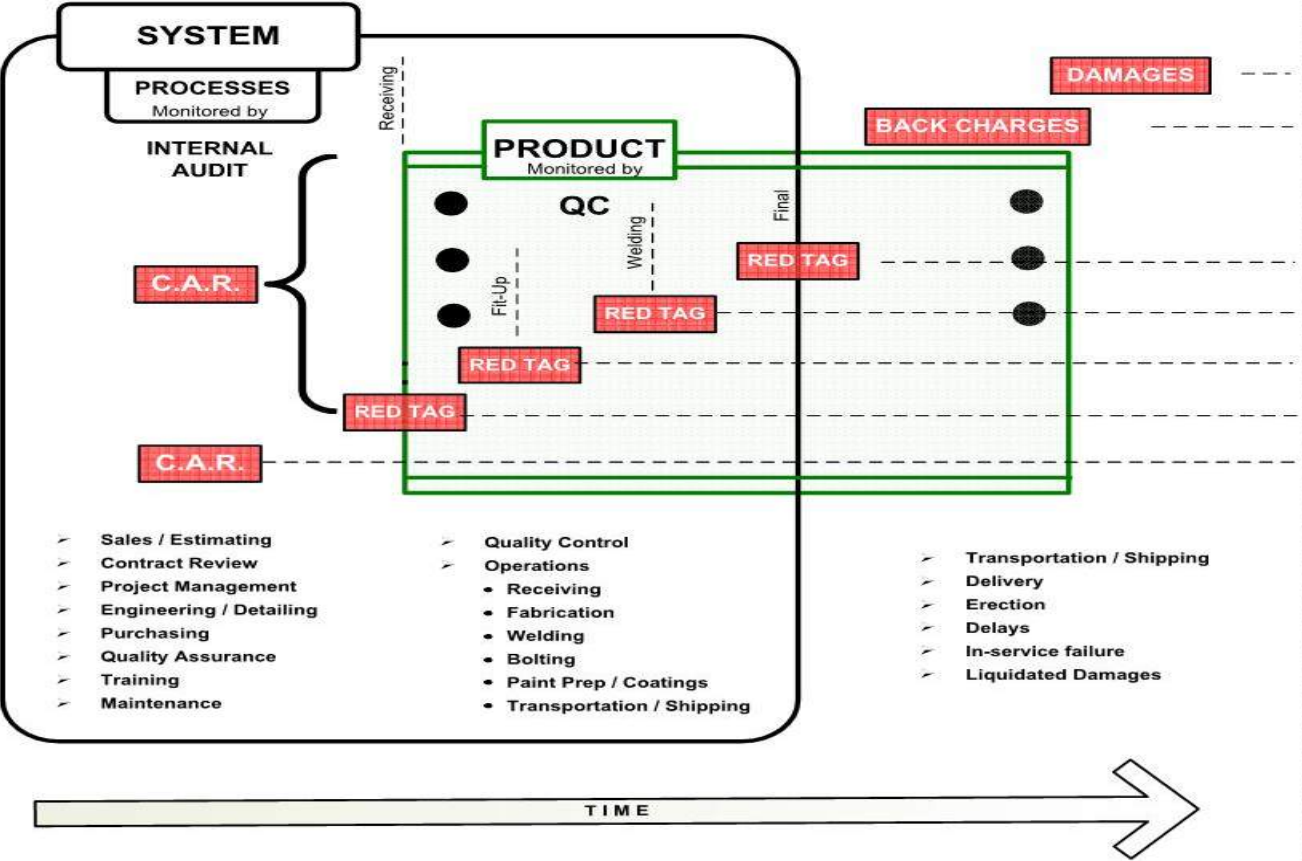


Diagram By Zane Keniston President at SSP, Inc. 5/26/2008



“If you can follow the manufacturing process in your mind, following that process from procedure to procedure, step by step, imagine viewing the process at 30,000 feet, then you're in position to effectively audit.”

Know your Client/organization (KYC)

Audit Planning and Strategy

Fieldwork:
Collect information and Obtain Evidence

Analysis :
Evaluate and assess the impact of evidence

Reporting and Documentation

Excercise Professional Judgement



What are the key things you want
to review ?

What is the criteria that you are using to measure against?

AUDIT PLANNING AND STRATEGY





Now it's time to audit (inspect-review), collect information and obtain evidence.

FIELD WORK

Evaluate and assess the impact of evidence. Root Cause?

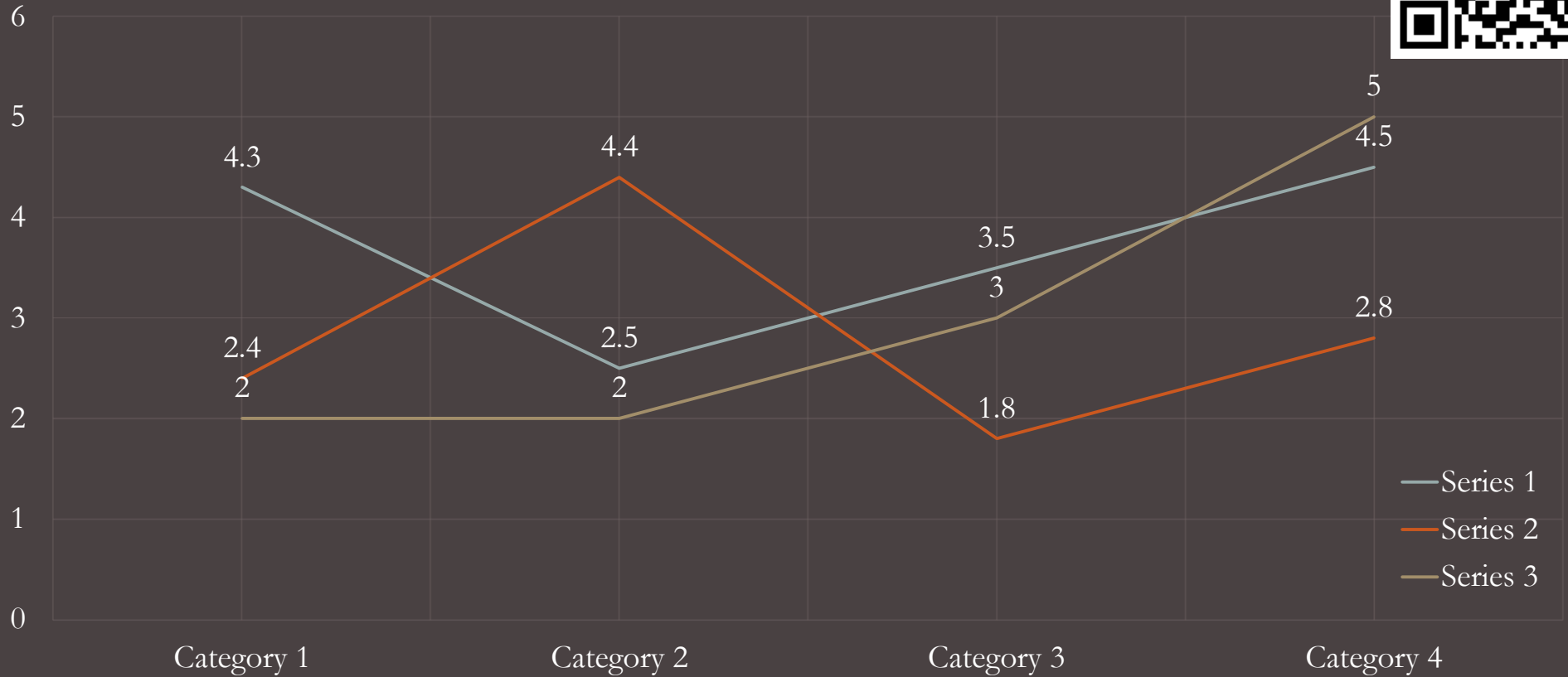
ANALYSIS




EXAMPLE-GOAL HISTORY



EXAMPLE TREND “CALIBRATION NONCONFORMANCES”





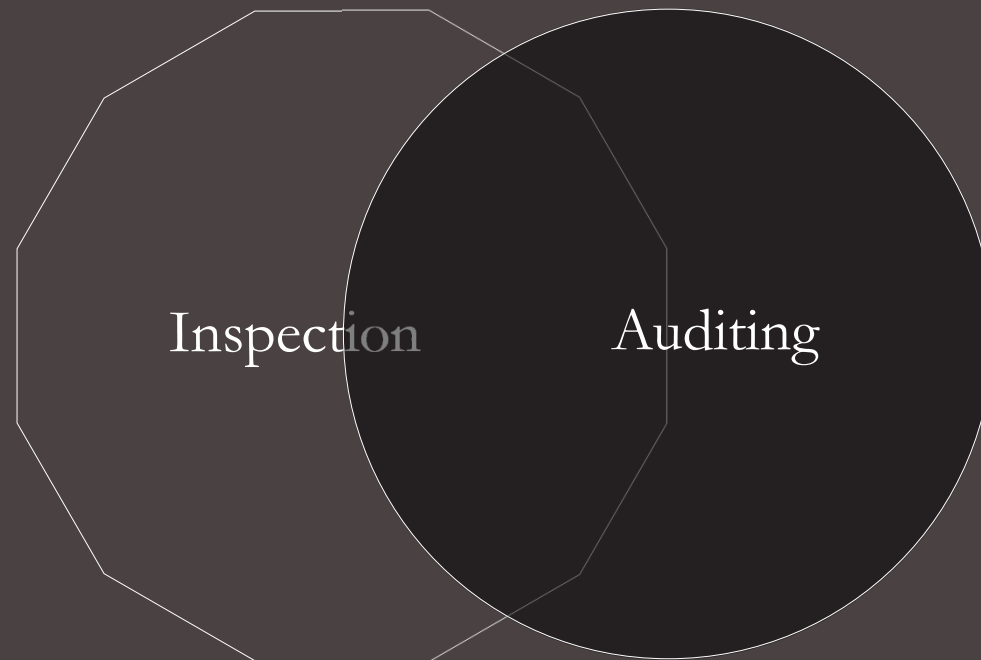
Although it may be easy to jump to a conclusion, an auditor must take the time to fully understand the potential finding before deciding on action.

Expectations of a Quality Professional

EXERCISE YOUR PROFESSIONAL JUDGMENT!



INSPECTION CAN BE A MAJOR PART OF AUDITING



FINDINGS



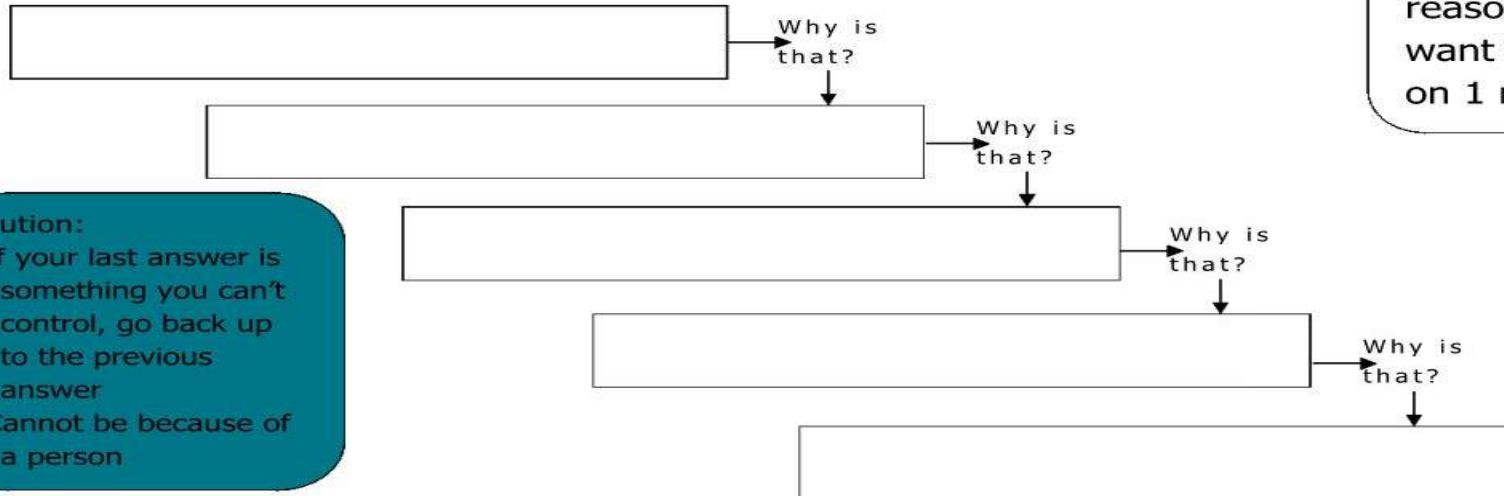
Asking Powerful Questions

The 5 Whys Worksheet



Define the Problem:

Why is it happening?



Caution:

- If your last answer is something you can't control, go back up to the previous answer
- Cannot be because of a person

You don't want to list 5 different reasons; you want to elaborate on 1 reason.

Action:



REPORTING YOUR FINDINGS

When Findings Are Not OK

- ◆ most audit reports contain only the facts that support a nonconformity or noncompliance.
- ◆ If one of the audit objectives is to identify opportunities for improvement, the findings might include observations of inefficiency.
- ◆ Auditors should review findings and any other information relevant to the audit objectives.
- ◆ Reviewing findings and other relevant information brings the audit full circle—when outputs are compared to input requirements.



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Audit Planning and Strategy

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KEY TAKEAWAYS



One,
Know your
Client



Two,
Audit Planning
and Strategy



Three,
Field Work



Four,
Analysis



Five,
Exercise your
professional
judgment!



Six,
Reporting
your Findings





Pioneer Steel Services, Inc.



TIPS FOR “AUDITING”

Be yourself, offer direction and think about you being on the receiving end of your audit.

- ◆ Be helpful not hurtful
- ◆ Be honest
- ◆ Be thorough





Pioneer Steel Services, Inc.

THANK YOU



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