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ISO 19443 at NIS Ltd

NIS – integrated engineering

Company Overview

NIS Ltd – A specialist integrated engineering company providing bespoke design and manufacture of plant and equipment by the transfer of technology across a wide range of markets

HEL Ltd – Providing engineering services to a broad range of clients across the nuclear industry. Hold provide expertise in fabrication and site services

NSG Ltd – Providing decommissioning and waste management services to the UK civil and defence nuclear installations for more that 20 years. In this time they have gained a unique understanding of radioactive waste management and decommissioning form working on many challenging contracts.



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Vision, Mission and Values

Mission

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Vision

To be excellent together



Standards

Committed to...



Safety - OHSAS 18001:2007, ROSPA Presidents award for 10 years of achievements

Quality - ISO 9001:2008 (ISO9001:2015 and 19443 when launched), pursuit of excellence, constant review and re-evaluation, continuous improvement, open communication, training. EN 1090 Exe 3, ISO3834

Environment - ISO 14001:2004, project specific environmental management plans, focussed on achieving lowest possible footprints

Security - Appropriate security cleared staff and premises to maintain integrity and provide confidence to clients



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Passionate about Corporate Social Responsibility



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Supporting High Integrity Sectors

Gloveboxes

Shield
Doors /
Gamma
Gates

Handling
Equipment

Non
Nuclear

Civil
Nuclear
New Build

Civil Nuclear
Existing

Fabrication

Security

Defence

AWE

Mechanical and
Electrical

Supporting the Nuclear
Industry since 1983

In-house Design and
Manufacture



NIS

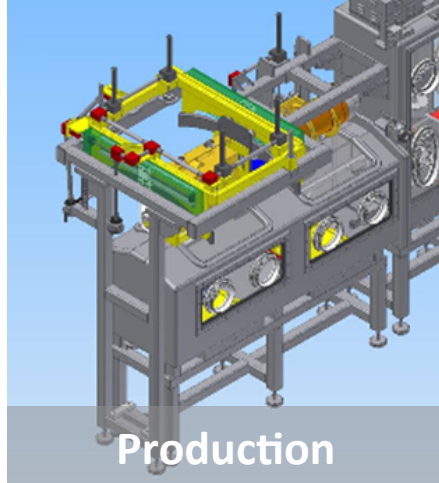
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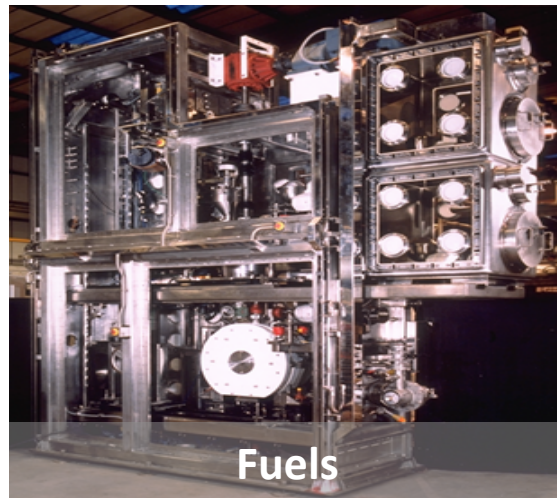
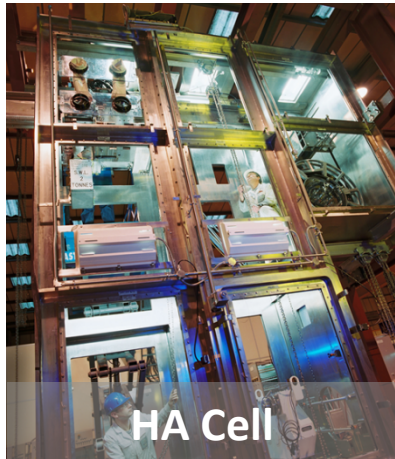
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Leading Supplier of Gloveboxes and Containments

NIS has
manufactured
over 300
Gloveboxes



Our experience has resulted in the
development of specialist manufacturing
processes only available at NIS

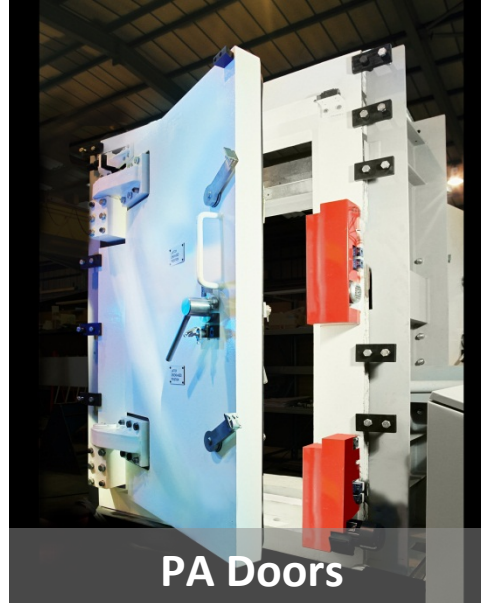



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Project Examples of Specialist Doors & Gates



In many cases Shield Doors / Gamma Gates are more akin to handling equipment due to the sophistication of their mechanisms

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Handling Equipment



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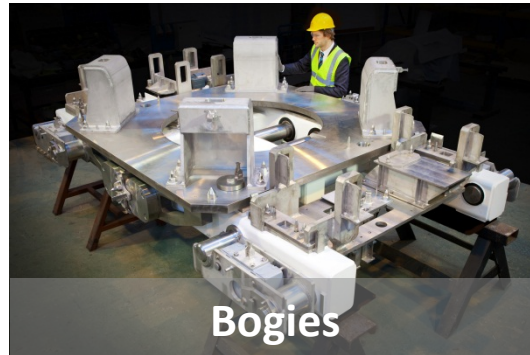
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Fabrications

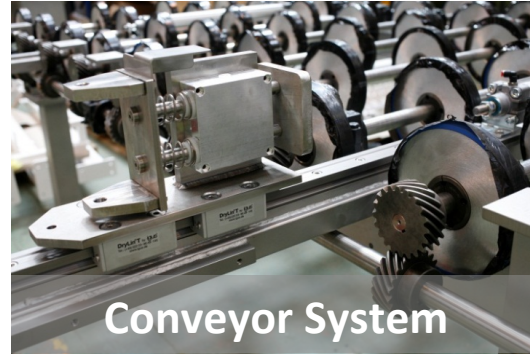


From the outset we produced welded fabrications which have met, or exceeded, the national and international standards for weld quality, integrity and durability. We have onsite some of the most highly skilled engineers with an extraordinary attention to detail that enables us to produce the very highest quality results



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Typical Non-Nuclear Projects



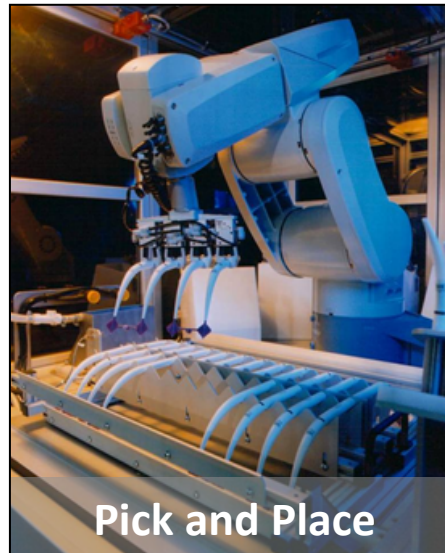
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Automation and Robot Integration



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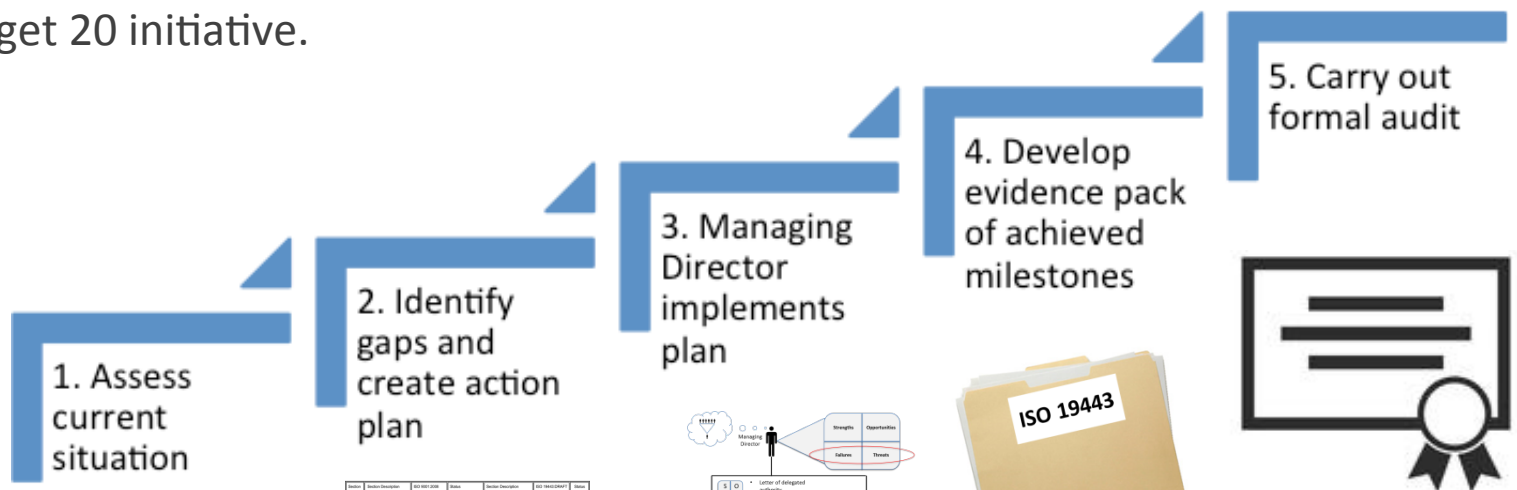
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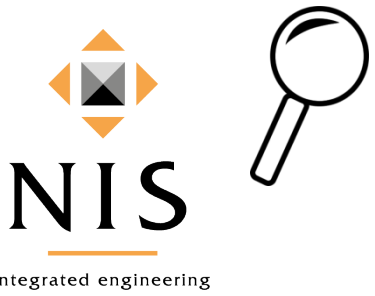
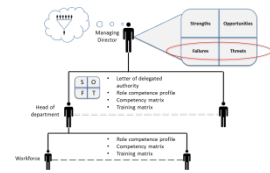
ISO19443: “Quality Management Systems - Specific requirements for organizations in the supply chain of the nuclear sector”

TAG 77: Supply Chain Management Arrangements for the Procurement of Nuclear Safety Related Items or Services

- Following introduction of ISO19443 and the 2015 update of TAG 77, NIS undertook a gap analysis of their current systems to identify potential improvement opportunities as part of a Target 20 initiative.



Item	Item Description	Reference and Frequency	Status	Action Description	ISO 19443/ TAG 77	Notes
1	Control Plan Review	7.2.1.2.2	Y	Control Plan Review	7.2.1.2.2	
2	Supplier Audit	7.1	Y	Supplier Audit	7.1	
3	Production	7.4	Y	Production	7.4	
4	Non-conformance Management	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	Y	Non-conformance Management	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	
5	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	Y	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	
6	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	Y	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	
7	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	Y	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	
8	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	Y	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	
9	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	Y	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	
10	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	Y	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	
11	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	Y	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	
12	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	Y	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	
13	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	Y	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	
14	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	Y	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	
15	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	Y	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	
16	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	Y	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	
17	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	Y	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	
18	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	Y	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	
19	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	Y	Management and Personnel	5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4	
20	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	Y	Supplier Control	8.5.3.1.1, 8.5.3.1.2, 8.5.3.1.3, 8.5.3.1.4	



Learning

- Managing Director has responsible to ensure a robust Quality Assurance system is in place and operating.
- Functional organisation
- Process Ownership
- Competence
- Understanding of Nuclear Safety and how NIS Ltd can influence it.

Quality Functional Framework

- A document that describes how the NIS Ltd quality system is applied:
 - Organisation chart
 - Authority – who is allowed to do what
 - Delegation of Authority - how authority can be passed on
 - Competence – requirement for and how it is controlled / evidenced

Extracts of the QFF

Document No. QFF-01	Quality Functional Framework	Issue No. 1	Sheet 2 of 15 Sheets
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Document No. QFF-01	Quality Functional Framework	Issue No. 1	Sheet 4 of 15 Sheets
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CONTENTS

- 1 INTRODUCTION 3
- 2 STANDARDS 3
- 3 QUALITY OBJECTIVES..... 3
- 4 DOCUMENT HIERARCHY 4
- 5 QUALITY ORGANISATION, ROLES AND RESPONSIBILITIES..... 5
- 6 COMPETENCE 13
- 7 KEY RELATIONSHIPS 13
- 8 CAPABILITY MANAGEMENT & DEVELOPMENT 13
- ANNEX A – QUALITY TRAINING 15

- Figure 1 Hierarchy of Documentation relating to the QFF 4
- Figure 2 Quality Role Descriptions Tier 1 6
- Figure 3 Head of Business Areas Tier 2 6
- Figure 4 Quality Organisation 7

4 Document Hierarchy

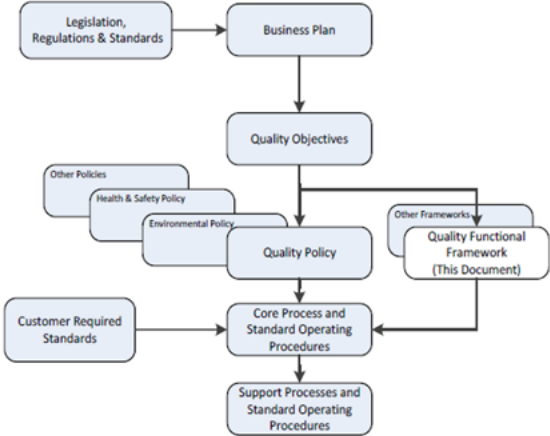


Figure 1 Hierarchy of Documentation relating to the QFF

Process Mapping

- NIS has adopted the 'Agility' software package from Business Port.
 - Allows mapping from specific clauses in Standards to NIS process steps. (aids audit)
 - Revision control
 - Accessible by everyone who needs it
- Core Process
- Turtle Diagrams
- Process Maps
- Standard Operating Procedures (SOP's)



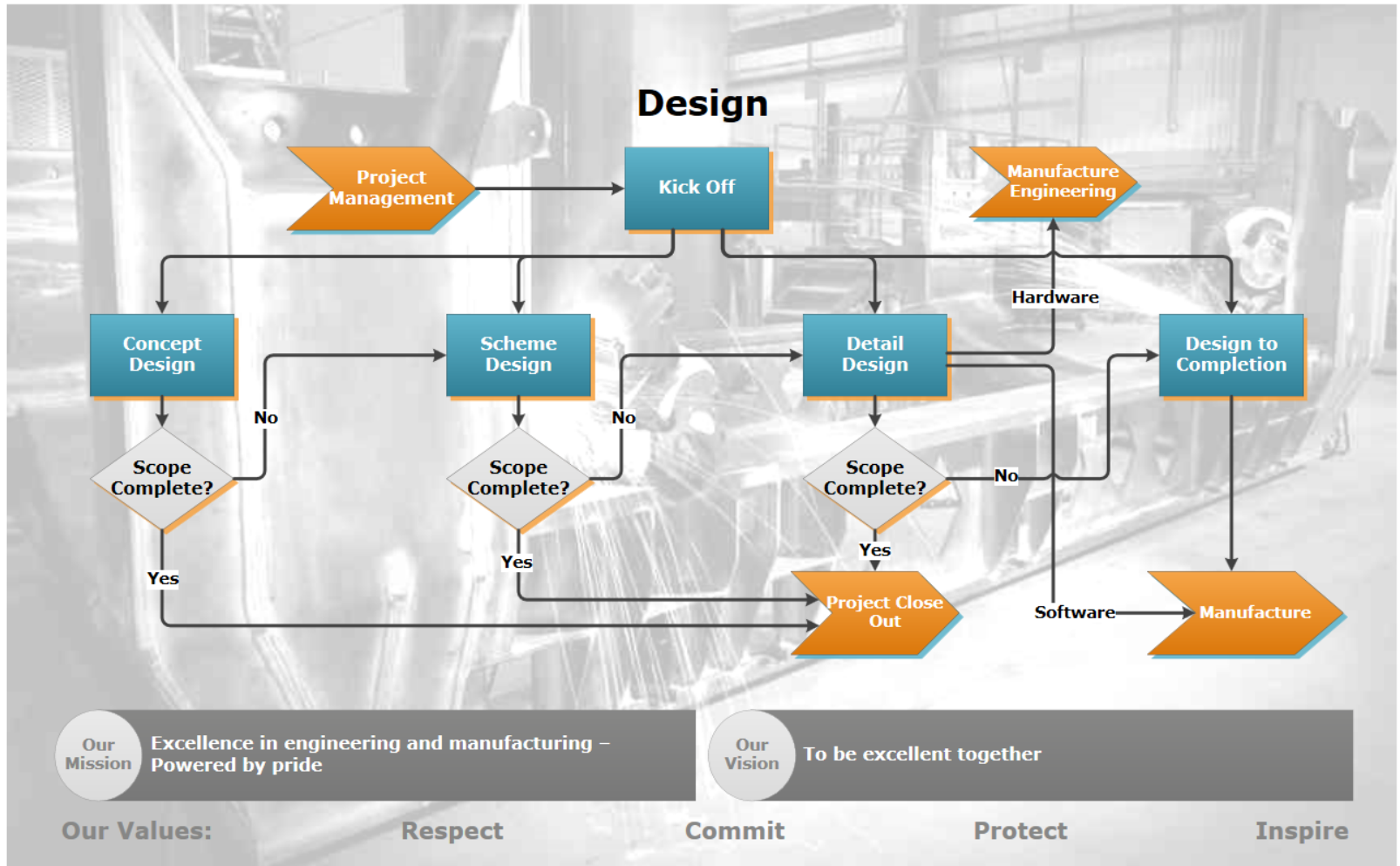
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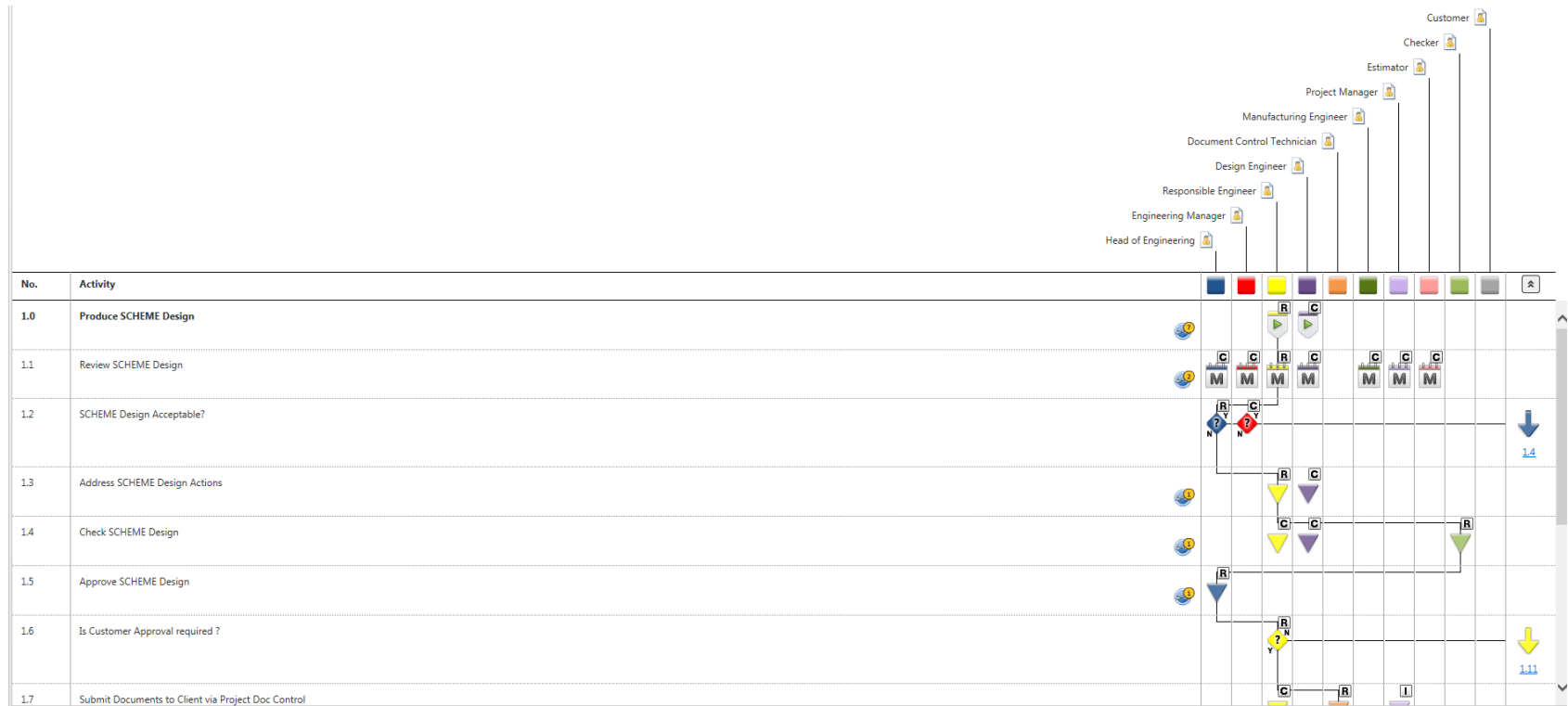
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Compliance Navigation Summary:

Compliance Navigator > ISO 9001: 2015 > 8 OPERATION > 8.3 Design and Development of Products and Services > 8.3.2 Design and Development Planning
 Compliance Navigator > ISO 9001: 2008 > 7 PRODUCT REALISATION > 7.3 Design & Development > 7.3.1 Design and Development Planning
 Compliance Navigator > ISO 9001: 2015 > 8 OPERATION > 8.3 Design and Development of Products and Services > 8.3.5 Design and Development Outputs
 Compliance Navigator > ISO 9001: 2015 > 8 OPERATION > 8.3 Design and Development of Products and Services > 8.3.3 Design and Development Inputs



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Competence

- NIS has chosen to adopt the NSAN Competency framework.
 - Required competencies are set up, and Job Descriptions assembled from the competencies.
 - Performance assessments can be completed against the competencies.
 - Training records uploaded.

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My Alerts Set up and Manage Skills Passports Resource Explorer Team Search My Skills Passport My Competence Assessments Training Directory NSAN Competence Framework

NIS Ltd Quality Management



Description

The competencies required by NIS Ltd for the management and maintenance of delivering quality assured services and products to our customers.

Levels

- Level 0
- Level 1
- Level 2
- Level 3
- ▼ Level 4

- Has a deep knowledge and understanding of the skill and comprehensive practical experience to consistently perform the required task(s) in a range of contexts.
- Has personal accountability and accountability for others regarding this skill.
- Is considered a 'subject matter expert' within his / her organisation and may influence and / or set strategic direction for this skill in support of business objectives.

Richard Penrose Your Profile Reports Sign Out

My Alerts | Set up and Manage | Skills Passports | Resource Explorer | Team Search | My Skills Passport | My Competence Assessments | Training Directory | NSAN Competence Framework

NIS Ltd Quality Management



Description

Embed a culture of assurance to ensure that policies, processes and plans are effectively implemented, and that all outputs (both internal and deliverable) are consistent with requirements.

Levels

- ▶ Level 0
- ▶ Level 1
- ▶ Level 2
- ▶ Level 3
- ▼ Level 4

- Has a deep knowledge and understanding of the skill and comprehensive practical experience to consistently perform the required task(s) in a range of contexts.
- Has personal accountability and accountability for others regarding this skill.
- Is considered a 'subject matter expert' within his / her organisation and may influence and / or set strategic direction for this skill in support of business objectives.

What NIS have achieved

- Recognised that TAG 77 and ISO 19443 was a required shift in our Quality system.
- Managing Director and Senior Management needed to step up and take ownership.
- Obtained and used expert advice.
- Understanding and linking required systems – i.e. Quality and Competence
- Having a Vision, creating pace, empowering people, Short and long term goals.
- Communication, Communication, Communication
- Celebrate.

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Thank you for listening

We are now happy to answer any questions you may have.



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