



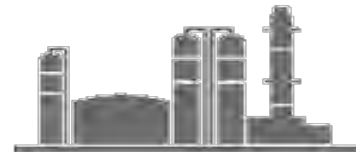
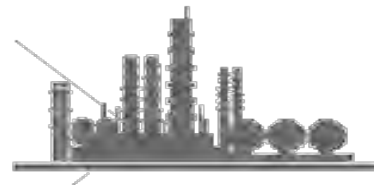
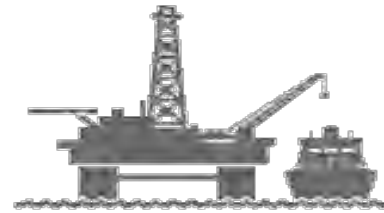
- **WORK SMART • WORK SAFE**
- **WORK EVERYWHERE**



Event : North East Maintenance Forum (NEMF)

Venue : Materials Processing Institute, Middlesbrough

Date : Wednesday 25th April 2018



Introduction



Peter Strassheim *BEng (Hons), CEng, MIET*
Managing Director

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Fax: +44 191 201 7778

www.engica.com

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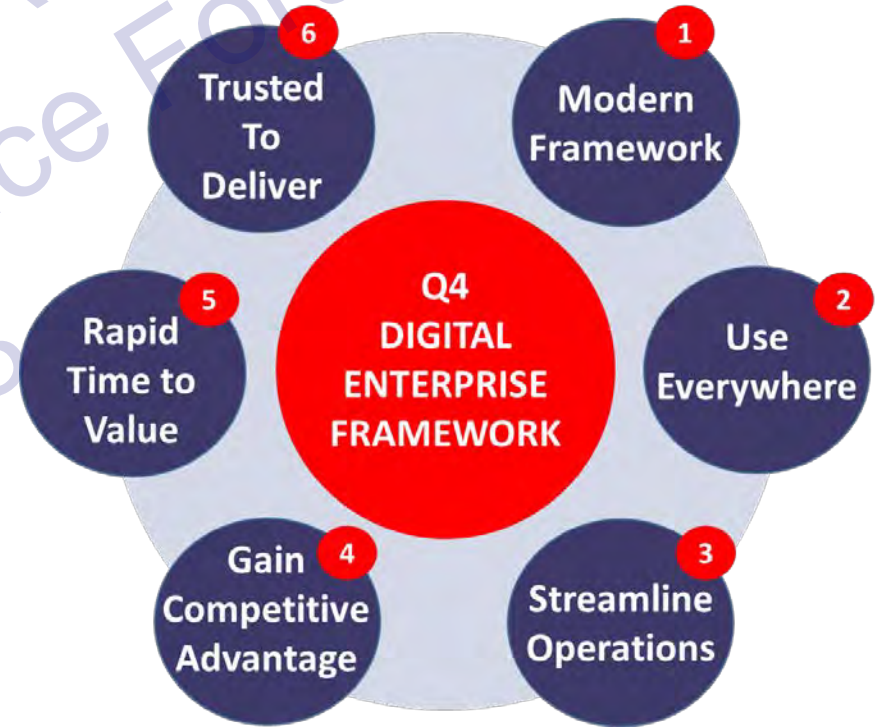
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Agenda



- About Engica
- Q4 Solutions
- Interfacing
- Observations from recent NEMF session
- SAFETY
- Benefits
- Trusted to Deliver
- AOB



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About Engica



- Established 1981
- Professional and experienced team
- Focused on control of work
- Advanced technology
- Global customer base
- Multi-language capability
- Fully integrated system
- Configurable solutions
- Intuitive and easy to use
- Microsoft GOLD Partner



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Modern Framework

Fully Web Enabled solution



1

Technology to
streamline dynamic
**Work Planning,
Efficient Delivery and
Reporting**



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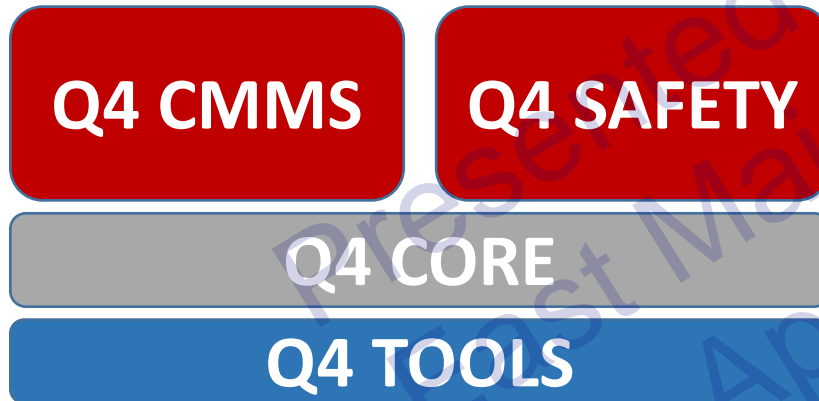


Modern Framework

- World class products and solutions for the Safe Control of Work, including :

Q4 Product Suite

Main modules include :



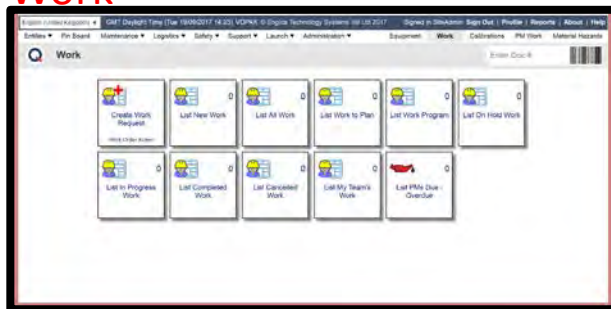
- Many additional modules and interface options are also available

Q4 v8 – Digital Enterprise Framework

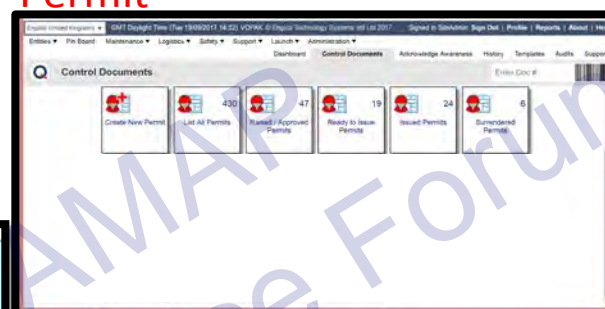


Modular, User Friendly, Seamless, Intuitive, Powerful, Consistent & Responsive UI

Work

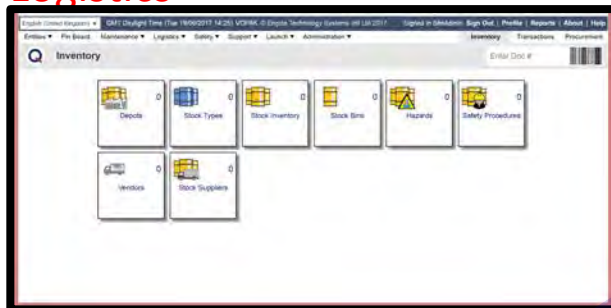


Permit

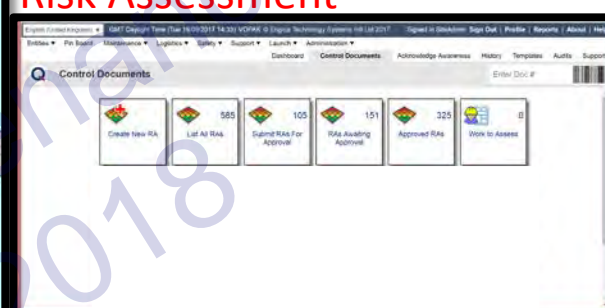


Easy to deploy and easy access via most modern browsers including :

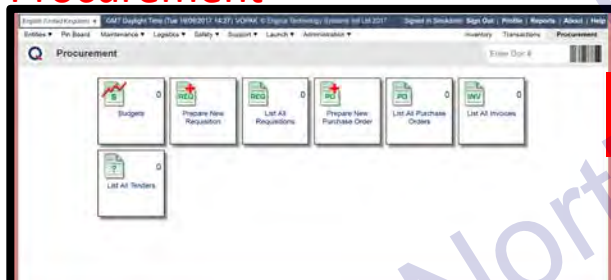
Logistics



Risk Assessment



Procurement



Isolations, STT, etc



Q4 DASHBOARD

Q4 CMMS

Fully Integrated, Modular & Scalable Framework

Q4 SAFETY



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Use Everywhere



2



Multi-platform applications for **easy and everywhere** use using Client specific work processes



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Example of Mobile Devices

Example of ecom
Intrinsically Safe
mobile devices :



Zone 1 – Mobile Phone
with PTT using Android



Zone 1 – Tablet
using Samsung Android device



Example of on / offline
Q4 App delivered for use
on a Windows device

Q4 is also in use by
our customers on
various other
devices / tablets,
including :

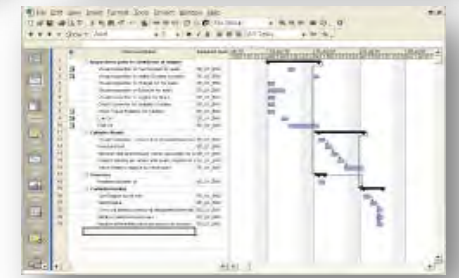
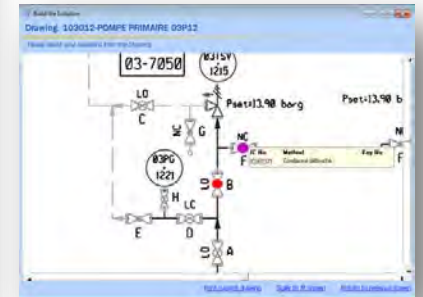
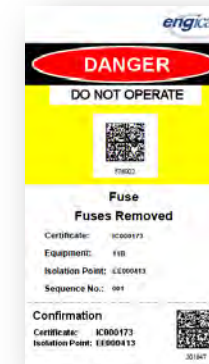
- Android
- iOS
- Windows

Interfacing



The architecture of Q4 has always been designed to allow integration with 3rd party applications, examples of which are shown below :

- ✓ ERP & Finance Systems
- ✓ Document Management Software (DMS)
- ✓ Geographic Information Systems (GIS)
- ✓ P&ID
- ✓ Calibration
- ✓ Condition Monitoring
- ✓ Planning Tools
- ✓ Bar-Code Readers / RFID
- ✓ Label / Tag Printers



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Recent NEMF meeting



- Here to share ideas and best practice
- During the Q&A session of the recent NEMF meeting a number of people made reference to the problems they face in their day to day roles, including :
 - How to retain plant knowledge,
 - Where to best store plant modification information, and ...
 - How to capture lessons learned
- Q4 can help you to resolve these issues (and many more).
 - Here's a couple of examples ...



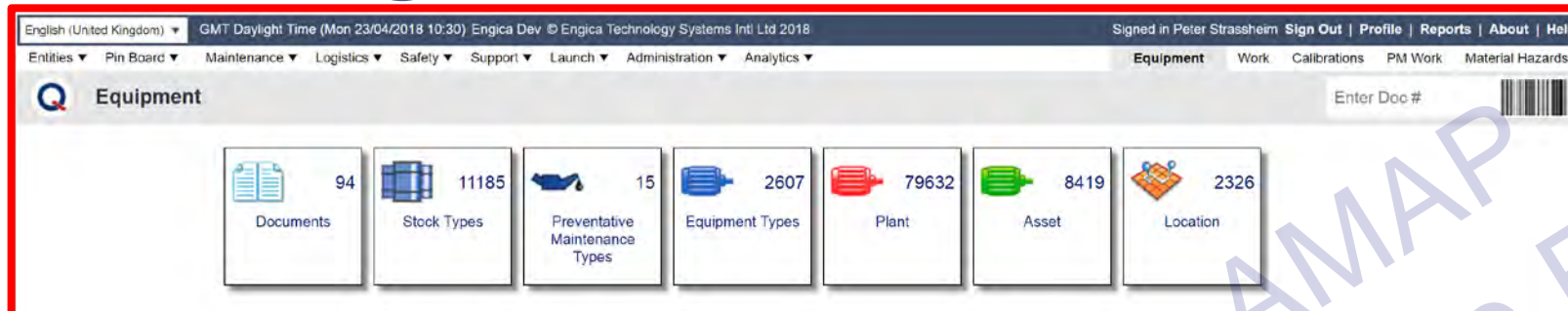
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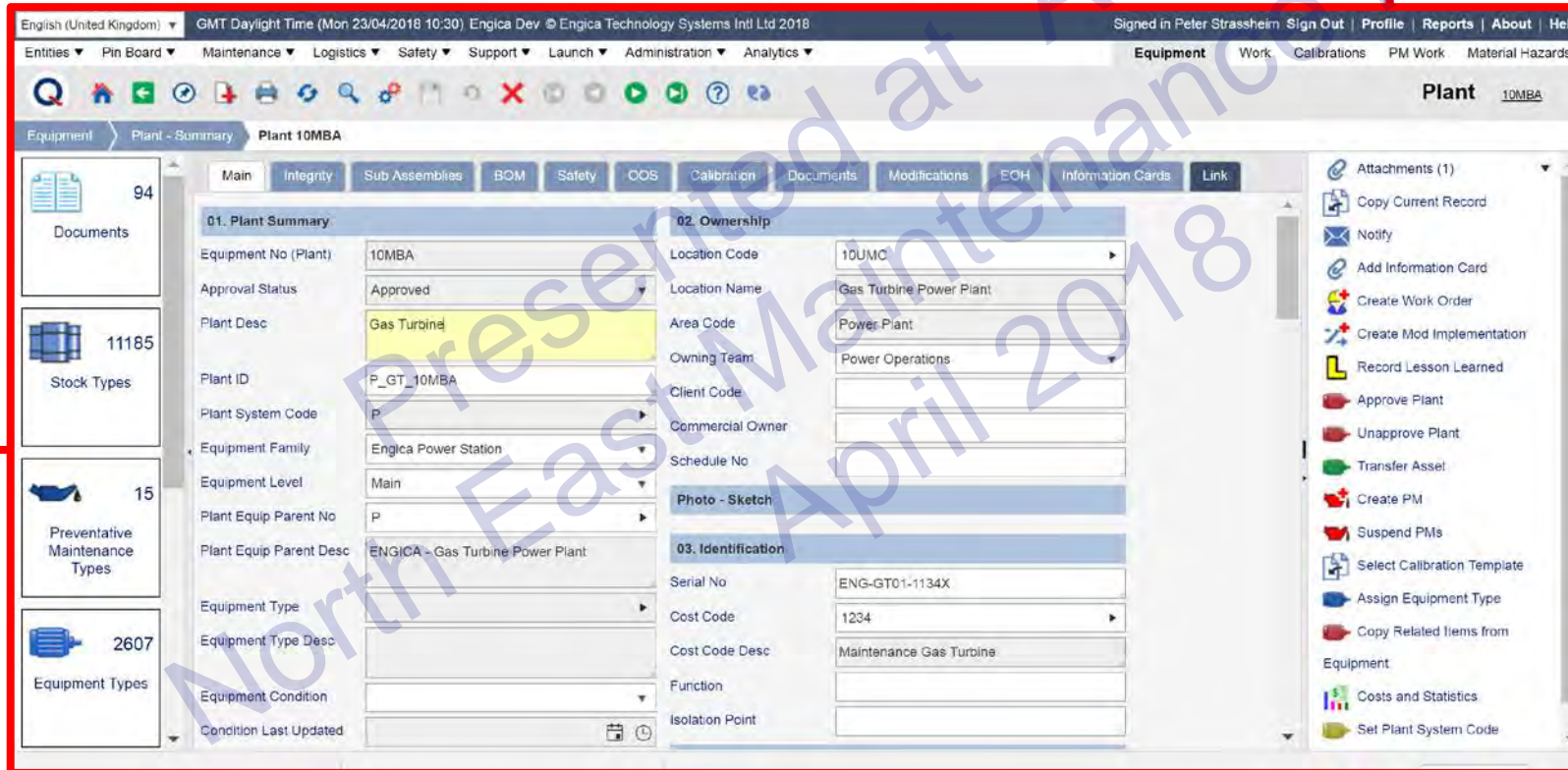
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Retaining Plant Information



Easy to navigate / search for the information you need



Numerous fields and attachment facilities to store all relevant information. Configurable to match your business requirements.



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Plant Modifications



The top screenshot shows the Engica software interface with the 'Modifications' tab selected in the top navigation bar. The bottom screenshot shows the 'Mod Implementations' table with a 'Link' button circled in the right-hand menu.

Implementation No	Statement No	Equipment No	Implemented Date	Implementation Summary
MI000007	MS000006	10MBA	Fri 06/10/2017 16:30	Compressor Upgrade 01 Installed

Simple to navigate to information about Plant modifications

Able to link to details, plus there are various other ways to search for lists of modifications



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Lessons Learned



English (United Kingdom) GMT Daylight Time (Mon 23/04/2018 10:35) Engica Dev © Engica Technology Systems Intl Ltd 2018 Signed in Peter Strassheim Sign Out | Profile | Reports | About | Help

Entities Pin Board Maintenance Logistics Safety Support Launch Administration Analytics Support Info People

Equipment Plant - Summary Plant 10MBA Lesson Learned LL000734

Main Equipment Location Isolation Points Link

2607 Equipment Types
2326 Location
281 Lessons Learned
4772

01. Lesson Details
Lessons Learned ID: LL000734
Reported By: MARK MASON
Reported On: Fri 20/04/2018 15:03
Lessons Learned Desc: Oil leak within entry to area - currently under inspection for cause

02. Location Details
Location Code: 10UMC
Location Name: Gas Turbine Power Plant
Location Desc: Gas Turbine Power Plant

03. Equipment Details
Equipment No: 10MBA

Attachments
Notify
Resolve Lesson

Similarly you can link to or search for Lessons Learned information

View Lessons Learned

View by:
Equipment Location

Lessons Learned

Equipment No: 10MBA Equipment ID:

Lessons Learned	Lessons Learned Description	Reported On
LL000734	Oil leak within entry to area - currently under inspection for cause	Fri 20/10/2017 15:03

When a User performs certain tasks Q4 can be set to prompt the User about Lessons Learned



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SAFETY First



- Most companies, including many of those who presented at the last NEMF meeting, indicate that SAFETY is their number 1 priority.
- It's very positive to see companies promoting HSE in the workplace.
- We now regularly see awareness campaigns to help promote safe behaviour.



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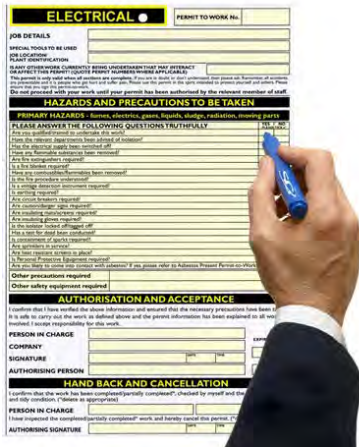


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SAFETY Systems / ISSOW

- How many companies represented here are currently operating a site Safety system? (e.g. Risk Assessments / Permits / Isolation Certificates)?
- How many are using hand-written paper documents?



Issues faced include :

- Reporting is difficult and slow
 - Handwriting sometimes hard to read
 - Limited visibility of work across site
 - Procedures harder to enforce
 - Authorisations can be time consuming
- The list could go on ...

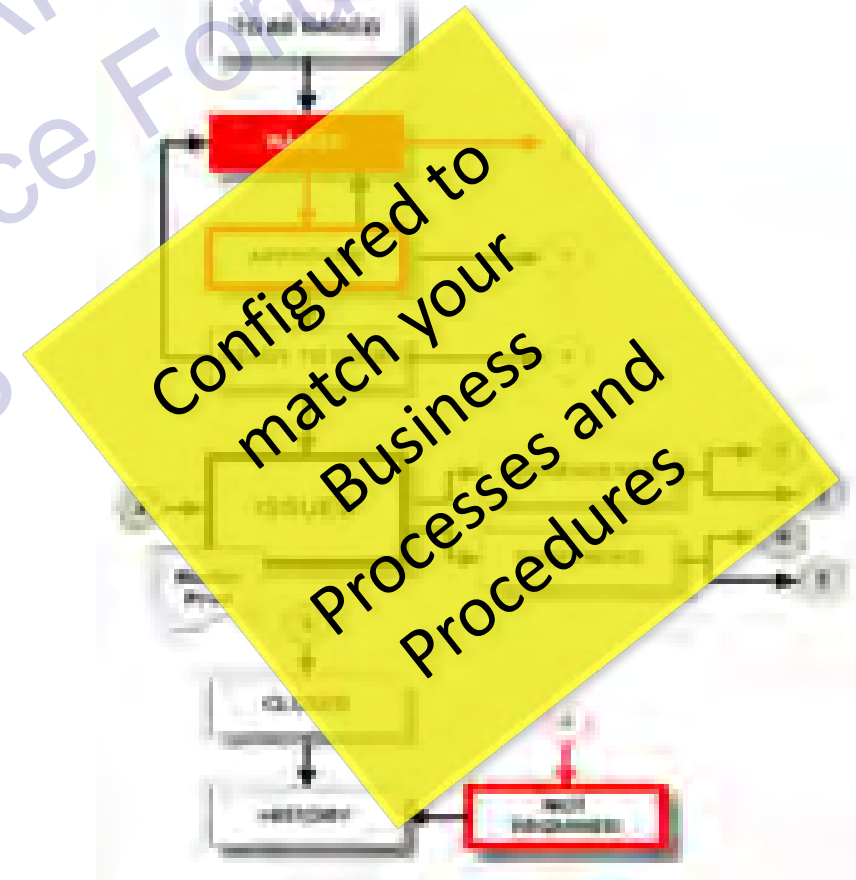
Could going Digital help?

Streamline Operations



3

Configure what you need
for each role to
streamline operations



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Electronic Q4 SAFETY system



Features to help streamline operations, including :

- User friendly, consistent User Interface (UI)
- Providing an excellent User Experience (UX)
- Configured with your processes and procedures
- Your documents on screen and printed (WYSIWYG)
 - Aids the transition from Paper to Digital
- Many other features including :
 - Skills check, Registers, Security and Permissions, Key Safes / Lock Boxes / LOTO, Awareness



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Benefits include :



- Instant access to all Safety documents
- Improved visibility and control (24/7 from anywhere)
- Ensures procedures and approval routes are adhered to
- Efficiency and safety improvements through online planning and electronic approvals
 - Significant benefits when planning for outages / shutdowns / turnarounds
 - Ability to create new documents from existing documents / templates / history
 - Helps to reduce incidents
 - Interface to Work Orders reduces duplication and error
- Full Audit trail
- Rapid Return on Investment

Presented at AMAP Forum
North East Maintenance April 2018



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Typical Q4 SAFETY search



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Entities Pin Board Maintenance Logistics Safety Support Launch Administration Analytics Dashboard Control Documents Acknowledge Awareness History Templates Audits Support

Permit Permit - Summary

Control Documents Permit - Summary

Search

Safety Doc No	Status	Safety Doc Type	Equipment No	Equipment Description	Work Desc	Location Name
Status: Approved (11)						
Safety Doc Type: Cold Work Permit (5)						
Safety Doc Type: Hot Work Permit (1)						
Safety Doc Type: Permit To Work (5)						
Status: Closed (59)						
Status: Issued (19)						
Status: Not Required (2)						
Status: Raised (64)						
Status: Ready To Issue (10)						
Status: Surrendered (21)						
Status: Suspended (3)						

Page 1 of 1 500 items per page Showing 1-189 of 189 items

Typical scenario showing some of the powerful and easy to use, searching and reporting features



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Gain a Competitive Advantage



4



User definable
dashboards with real time
**KPIs to gain competitive
advantage**



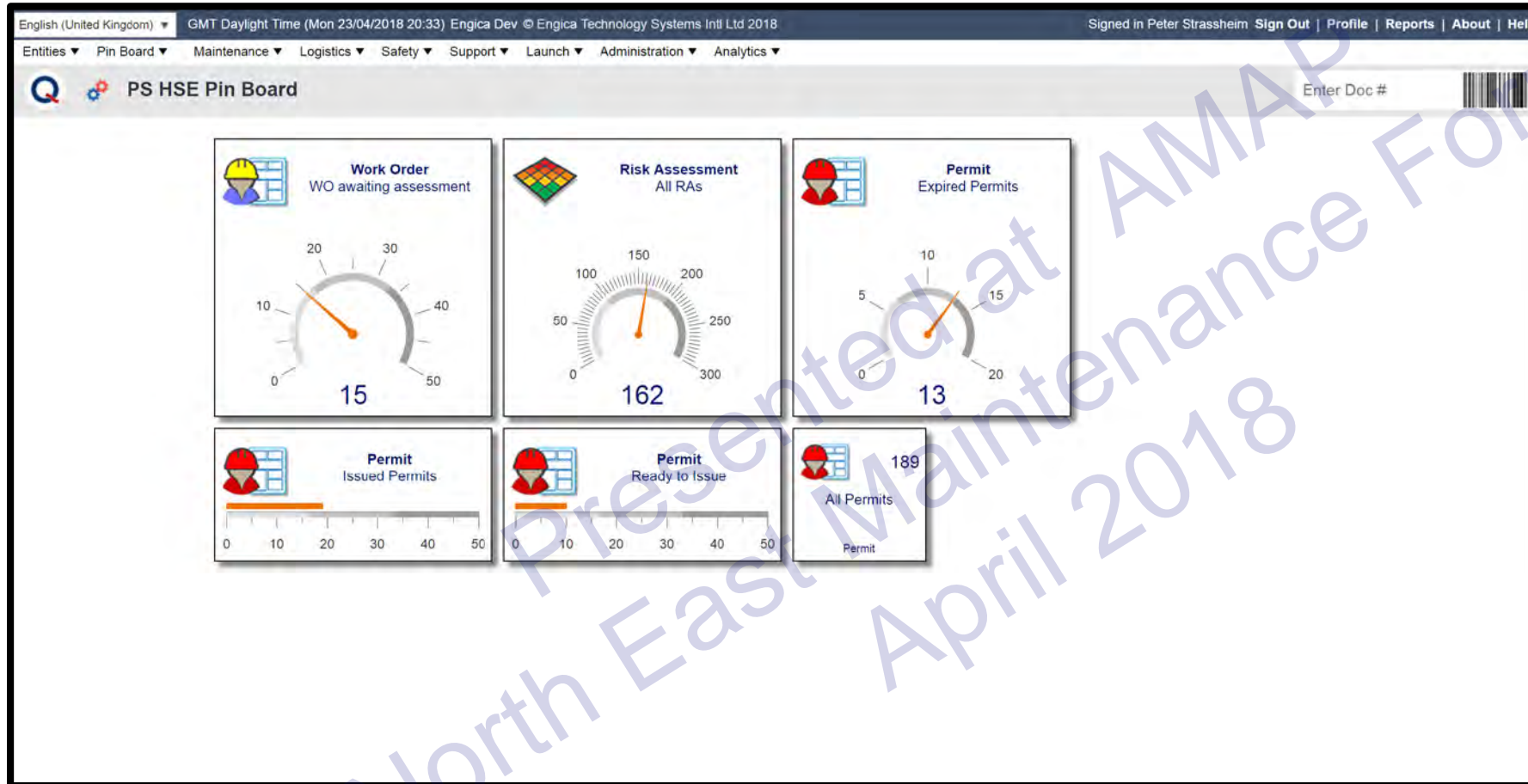
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User definable Pin Board



User definable
Pin Boards to
gain fast access
to what matters
to you or your
team



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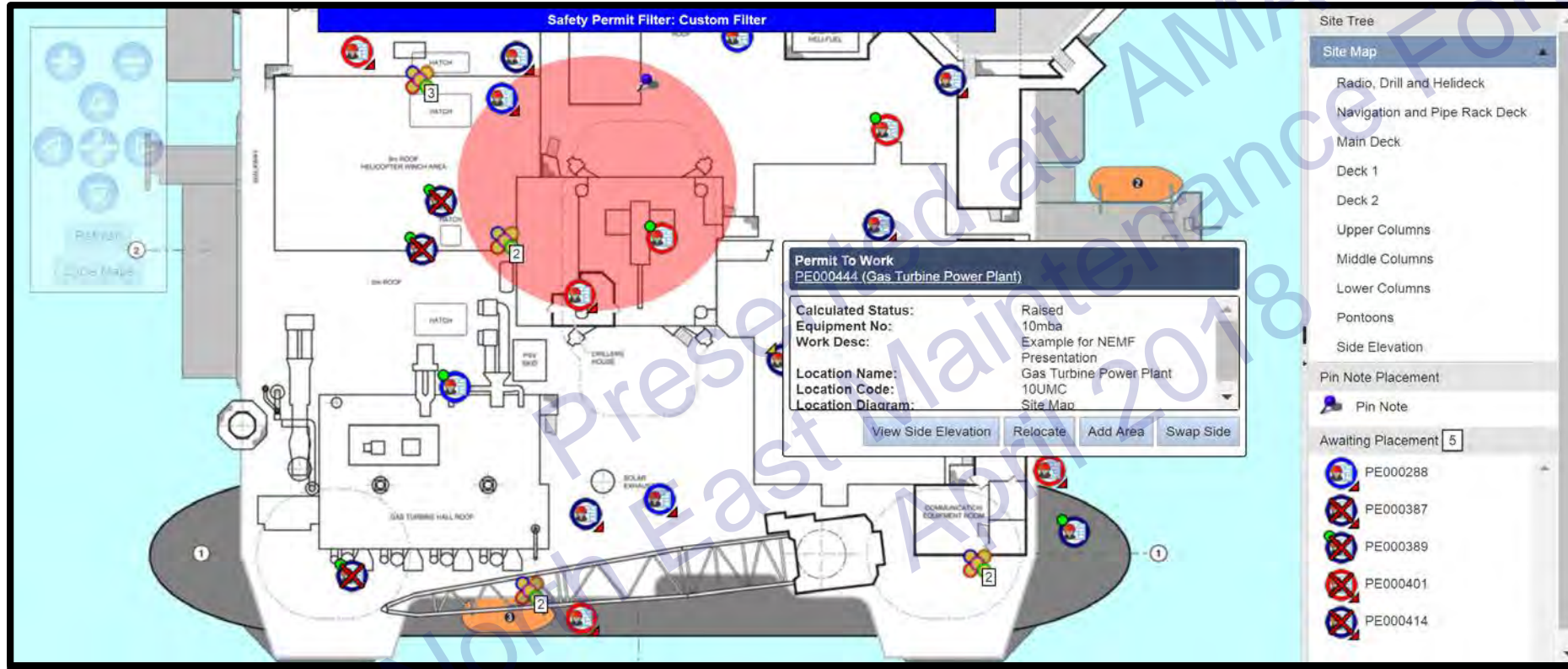
Q4 Dashboard



Provides full visibility of work across your site(s)

Features include :

- Your site layout(s)
- Intelligent Grouping
- Colour coded icons
- Pan & Zoom
- Location Learning
- Custom Filters
- Quick links



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Q4 Dashboard



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Entities ▼ Pin Board ▼ Maintenance ▼ Logistics ▼ Safety ▼ Support ▼ Launch ▼ Administration ▼ Analytics ▼

Control Documents > Permit - Summary > Permit To Work PE000444 > Site Map > Permit To Work PE000444

Document Main Related Documents Work Pack Isolations Awareness Keysafes

Create New Permit

List All Permits 190

Raised / Approved Permits 76

Ready to Issue Permits 10

19

engica **PERMIT TO WORK**

An Alert, Gas Release, Evacuation or other Emergency Suspends/ Cancels this Permit. Before restarting work, contact Permit Approver

SECTION 1 To be Completed by Requester/ Work Team Leader

1a Valid From: 25/04/2018 13:00 Valid To: 26/04/2018 16:30

1b Requester: PS012345

1c Equipment: 10mba Gas Turbine

1d Job Site Location: 10JMC Gas Turbine Power Plant

1e Work Desc.: Example for NEMF Presentation

1f Tools:

1g Previous Content:

1h Check Additional Certificates / Checklist. Mark (✓) in the box for required item

Hot Work Cert.	Excavation Cert.	SIMOPS Checklist
Dive Cert.	Electrical Cert.	Basket Transfer Checklist
Confined Space Cert.	Radiography Cert.	Work at Height Checklist
Protection Bypass Cert.	Heavy Lift Cert.	Crane Lift Review/Plan Checklist
Isolation Certificate	Key Safe	Sanction To Test to be performed

1i Isolation Certificate

SECTION 2 To be Completed / Verified by Permit Approver & Area Controller or their designee

2a Gas Test Requirements (Initial gas test by Qualified Gas Tester. Attach gas test log for follow-up gas testing)

2b

Time	%LEL	%O2	H2S ppm	Other	Instrument #	Qualified Gas Tester (QGT)

SECTION 3 by relevant parties

3a Approval and Acceptance

Approver: (If all the requirements and conditions of this permit remain in effect, the work can be performed safely)

Name	Signature	Date	Time
Area Controller: (Safety measures are in place and equipment/area is released for work)			
Work Team Leader: (Permit conditions understood, agreed and communicated with Permit Users)			

3b ON-SITE VERIFICATION by Site Checker (Area Controller or their designee)

Name	Signature	Date	Time

3c Stop Work Authority

Reason:

Name	Signature	Date	Time

3d Permit Revalidation

Valid from (Date & Time)	Valid to (Date & Time)	Work Team Leader	Area Controller	Permit Approver

3e Permit Closure

Comments / Lesson:	Signature	Date	Time

Work Team Leader (Work completed & site handed over in safe condition)

Area Controller (Agreed to above, site checked and found ok)

Permit Controller (Permit Closed)

engica **PERMIT TO WORK** PE000444

An Alert, Gas Release, Evacuation or other Emergency Suspends/ Cancels this Permit. Before restarting work, contact Permit Approver

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1c Equipment: 10mba Gas Turbine

1d Job Site Location: 10JMC Gas Turbine Power Plant

1e Work Desc.: Example for NEMF Presentation

1f Tools:

1g Previous Content: See MSDS for safety & health hazards

1h Check Additional Certificates / Checklist. Mark (✓) in the box for required item

Hot Work Cert.	Excavation Cert.	SIMOPS Checklist
Dive Cert.	Electrical Cert.	Basket Transfer Checklist
Confined Space Cert.	Radiography Cert.	Work at Height Checklist
Protection Bypass Cert.	Heavy Lift Cert.	Crane Lift Review/Plan Checklist
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Area Controller (Agreed to above, site checked and found ok)

Permit Controller (Permit Closed)

Fast and easy access to electronic documents

WYSIWYG format aids the transition from Paper to Digital

Watermark forms part of document control



Rapid Time to Value



5

Rapid Time to Value through configuration using purpose built tools and technology



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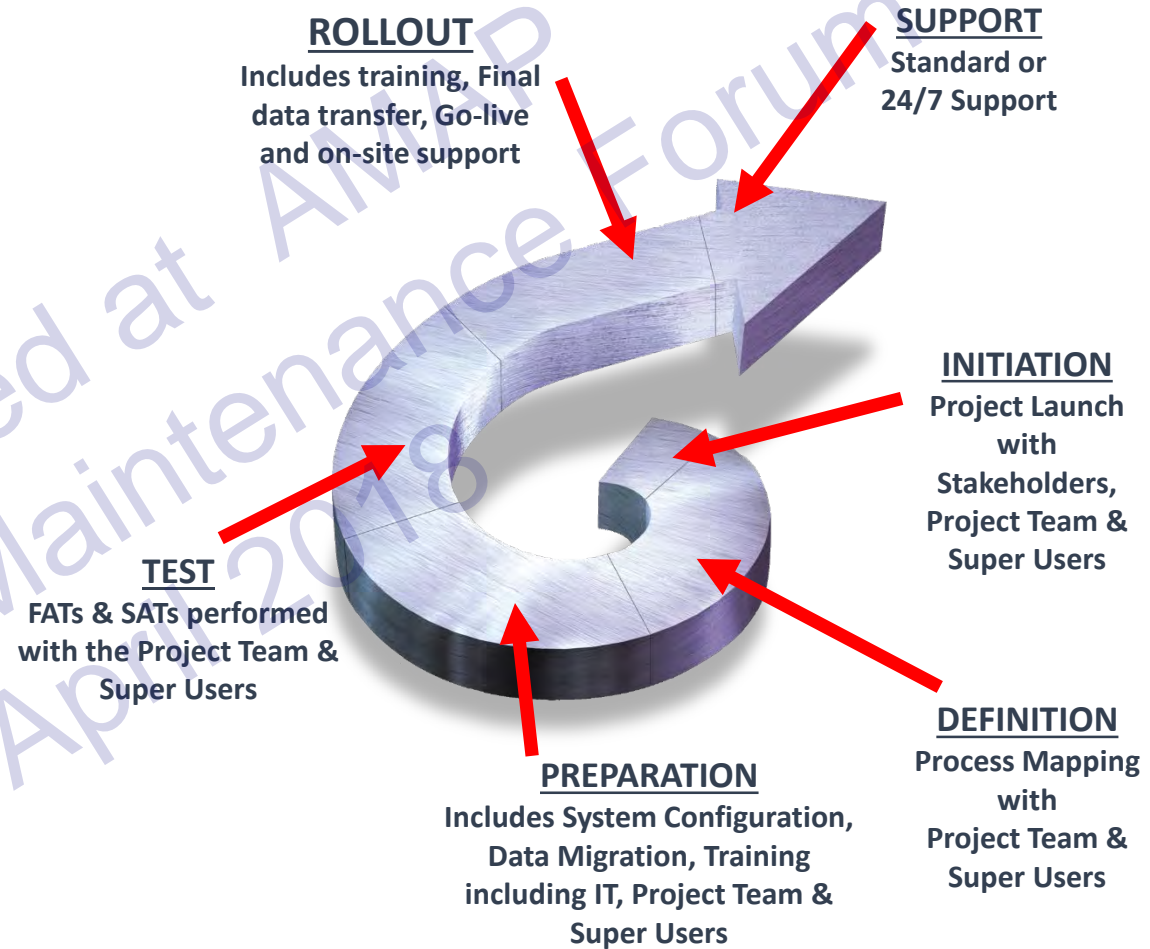
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Project Implementation & Services



- Key to a successful project
- Team approach
- Experienced Team
- Proven methodology
- Fast track approach
- Agreed Milestones
- Delivered
 - On Time
 - As agreed
 - On Budget



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Trusted to deliver

Configurable and proven for use across many business types



6 Trusted
by Global
Clients
across
multiple
industries
including :



Oil, Gas and Extraction



Power Generation



Utilities



Process



Chemical and Industrial



Transportation



Manufacturing and Production



Field Service



Fleet



Facility



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Customer Support



- System Support includes :
 - Helpdesk
 - Upgrades
 - Telephone and web support
 - Remote support (dial in)
 - Optional 24/7
- Data support
 - Off-site (optional)
- User Group
 - User Days
 - Product Development Forums
- Q4 Academy (Training)
 - Webinars
 - General and Bespoke Training
 - Customer Portal / Resource Centre



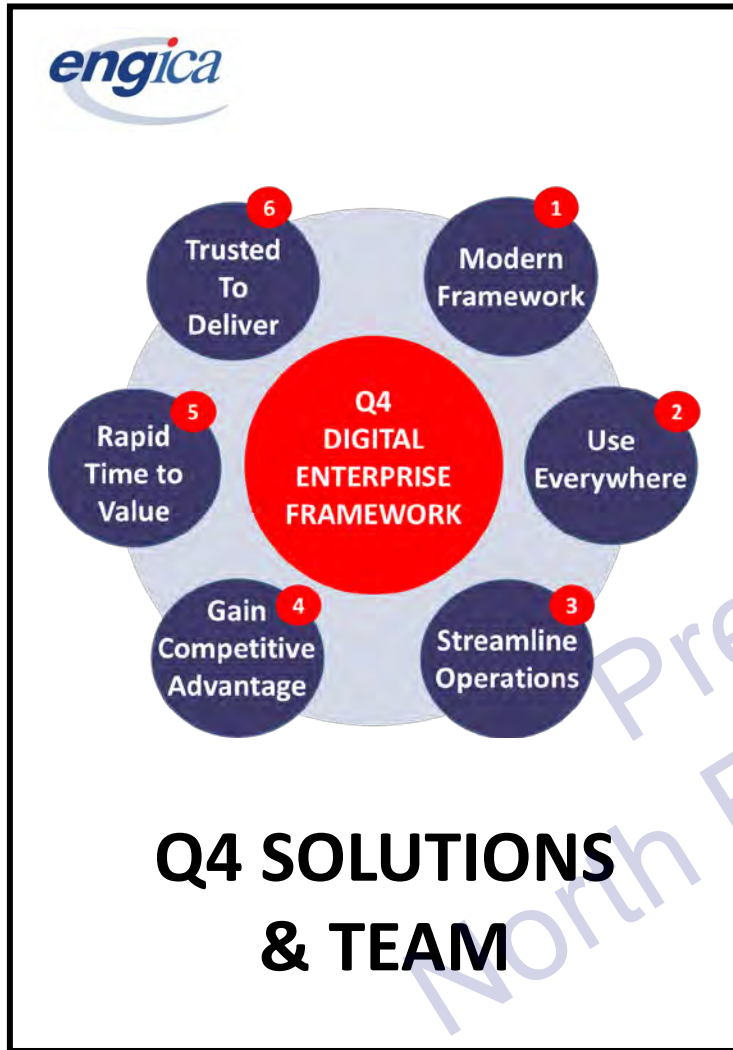
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Going Digital



**YOUR BUSINESS
REQUIREMENTS
&
TIMESCALES**



**CONTINUOUS
IMPROVEMENT
+
COMPETITIVE
ADVANTAGE
+
SAFETY
IMPROVEMENTS**



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Summary



- **SOFTWARE** Q4 CMMS and / or Q4 SAFETY solutions
- **DELIVERY** Implemented to your requirements by our local team of experts.

Electronic Safety documents configured to match your paper documents (WYSIWYG) within Q4 SAFETY

Work remotely using Browsers or via Apps such as the Q4 ISOLATION App



Live view of Work Orders / Safety Documents via Q4 DASHBOARD

User configurable screens to allow fast access to what you / your team use most via Q4 PIN BOARD



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THANK YOU



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