



MATRIX INTERNATIONAL (UK) LTD.

SPECIAL METALLURGICAL CONSIDERATIONS

Metallurgy

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1 Metallurgy Specific Standards

1.1 ISO ICS 77 Standard

ISO ICS 77 covers production of metals, testing of metals, corrosion of metals, surface treatment and coating, ferrous metals: including classification, designation, sampling, chemical analysis, etc. Dimensions and quality grades of iron and steel products, ferroalloys including classification, designation, sampling, chemical analysis, etc. non-ferrous metals including classification, designation, sampling, chemical analysis, etc. precious metals for dentistry, see precious metals for jewellery dimensions and quality grades of non-ferrous metal products iron and steel products, steel products for aerospace construction, products of non-ferrous metals including products of non-ferrous metal alloys, products of non-ferrous metals for aerospace construction, see powder metallurgy including sintered metal materials and hard metals equipment for the metallurgical industry.

1.2 Implementation

To enable these improvements, ISO 22000 operates in a loop of what can be abstracted to Leadership → Planning → Support → Operation → Performance → Evaluation → Improvement which then loops back round to the Leadership to implement such improvements for the next iterative cycle.

1.3 Limitation and Extensions

Despite a generalised standard, each implementation is different. Hence Matrix develops a specific mode of operation specific to each task borrowing from other complementary standards which may apply to the system as well as incorporating any standard the customer requests.

This ensures effective work beyond the minimum of the international Metallurgical Standards.

2 Metallurgical Integration Concerns

2.1 Existing Computer Systems & Protocols

An Metallurgical industrial control system must interact with other computerised systems. Integrating with these seamlessly can often require adapting to and understanding said bespoke systems.

Hence, Matrix employs a Agile strategy of work with development operations being flexible to fit around specific or changing customer requirements.

2.2 Maintenance & Support

The Metallurgical is a demanding one, inso far as it operates 24/7.

To Aid such operation, Matrix offer increased compterised maintence protocols and 24/7 support for all implementations aswell as an extensive method statement portofilio for each project which is delieved along with each implementation to aid on site maintence work to tackle common issues.

3 Upgrading & Adapting & Analysing

As with most industires, the Metallurgical industry is everchanging.

To help improve systems, Matrix offers an integrating analysis platform with each product so that the customer can track quality management as per the international standards independantly of Matrix.

This aids the customer in planning upgrades and seeing where one would be benefical. With Computer APIs, rigourous documentation and build in extensibility, upgrades are easy to be do internally or from any external vendor.