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# MARIO TERRAZAS

## MANAGER QUALITY AND METALLURGY

Sr. Metallurgist | Ownership | Quality Management | ISO 9001 & 14000 | Process Engineering | Alloy Development | Heat Treatment | Metallurgical Laboratory | Welding | Melting Furnaces IF | EAF | BOF

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### Professional Experience

I hold an MSc in Metallurgy and a bachelor's degree in Materials engineering with over a decade of experience driving innovation, quality improvements, and operational excellence in foundries, steel mills, and laboratories. Expert in process optimization, alloy development, and quality systems (ISO 9001, ISO 14000). Proven leader in implementing cost-effective solutions that enhance efficiency and product quality. Additionally, I have a solid academic foundation and a history of impactful publications.

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#### POK Castings (Nucor Co.)

Manager – Quality and Metallurgy

2023 – Present

Ensure safety, product quality, and compliance with technical and ISO standards while optimizing quality control processes.

- Improved efficiency of metallurgy laboratory operations up to 99% through metallurgical processes optimization.
  - Achieved a <0.5% in non-conforming products by implementing advanced quality control tools.
  - Streamlined quality corrective actions processes, increasing root cause closing readiness by 100%.
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#### Acerlan Matrix Metals

Metallurgy & Process Engineering Manager

2021 – 2023

Lead melting operations and process engineering initiatives to enhance production efficiency and material quality.

- Improved product quality by 18% by introducing SPC methods and improved testing.
- Implemented a heat treatment cycle that reduced gas consumption by 20%.
- Reduced melting process costs by 12% through optimized EAF and IF operations.

Manager – Metallurgy & Melt

2018 – 2021

Oversee daily melting operations, ensuring quality control and operational safety.

- Led a team to achieve a 25% improvement in production efficiency through training and process standardization.
- Reduced scrap rates by 15% by enhancing melting and casting processes.
- Developed protocols that lowered energy consumption in the melting process by 10%.

Plant Metallurgist

2015 – 2018

Develop and implement quality control methods and metallurgical testing procedures.

- Introduced new melting testing process, improving compliance with client specifications by 100%.
  - Reduced casting scrap by 20% through defect root cause analysis and corrective actions.
  - Designed welding and heat treatment cycles that increased cast part yield by 10%.
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## **TyASA Mexico**

EAF Shop Supervisor

2014 – 2015

Supervise the operation of a 200-ton EAF and ensure adherence to safety and production standards.

- Implemented safety protocols that decreased incidents by 5%.
  - Reduced downtime by 10% through improved maintenance scheduling and training.
  - Enhanced production flow by 10% by optimizing furnace loading sequences.
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## **ArcelorMittal**

Shift Supervisor – BOF Operations

2014 – 2015

Manage 120-ton BOF and EAF operations while ensuring compliance with safety, quality, and environmental standards.

- Streamlined sampling analysis procedures time by 10%.
  - Achieved a 10% yield improvement by optimizing ladle refining processes.
  - Enhanced molten metal efficiency by 5% by minimizing cleaning time for pig iron ladles.
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## **Education**

Morelia Technological Institute

- *Master of Science in Metallurgy* | 2012 – 2014
- *Bachelor's in Materials Engineering* | 2007 – 2012

Accomplishments and Trainings

- Core Tools | 2024
- Leadership and Top Management ISO 14001:2015 | 2023
- Metallurgical Considerations on Heat Treatment | 2023
- Robert G. Shepherd Best Paper | T&O from the SFSA | 2020
- Rod Duncan Best First Time Paper | T&O from the SFSA | 2018
- ISO 9001:2015 Lead Auditor | 2017
- Quality Management System Implementation | 2017
- Spanish: Native | English: Professional
- Others: B1/B2 VISA and Passport