Evaluating your Metallurgical Accounting System

This course will provide context for aspiring professionals entering the field of mineral processing, or for professionals from related fields who need a working understanding of the discipline.

A course designed to strengthen professional know-how and equip leaders and stakeholders to make informed, high-impact decisions. This workshop explores the critical value of metallurgical expertise and how to ensure you and your team are performing at the highest standard. Expert presenters will explore the critical points where value is created or lost across the mine-to-metal value chain.

Participants will gain a clear understanding of the knowledge and skills needed to optimise metallurgical performance. Mining leaders will sharpen their decision-making insight and learn the right questions to ask, while emerging professionals will identify where to focus, build their expertise, and maximise their impact.

Diana Felipe

Diana Felipe is a Senior Process Specialist at JKTech with 10 years of operational and consulting experience in base and precious metal operations. She graduated from Monash University with a chemical engineering degree. At JKTech her consulting projects primary focus on metallurgical accounting, experimental design/statistical analysis, geometallurgy and circuit modelling/optimisation.

Her specialty is metallurgical accounting. In addition to providing metallurgical accounting training and support to clients, she routinely conducts audits for operations. The purpose of these audit vary, but have included: Due diligence and corporate governance; third-party toll treatment; and, root cause investigations of reconciliation errors.

Course Outline

Introduction

- Definition of the Metallurgical Accounting System
- AMIRA P754 Code of Practice and Guidelines

Measurements

- Mass Measurement
  - Static and In-Motion Weighing Systems
  - Flowmeters and Density Gauges
  - Calibration and Certification Requirements
- Sampling
  - Representative Sampling Principles
  - Slurry and Conveyor Sampling (Manual and Automatic)
  - Stockpile and Tank Sampling and Inventory Turnover
- Sample Preparation and Assay
  - Sample Reduction and Preparation
  - QA/QC Protocols

Metal Balancing

- Accuracy vs Precision
- Statistical Mass Balancing and Reconciliation Techniques

Data Management and Reporting

- Error Tracking and Reporting Uncertainty
- AMIRA P754 Requirements

Practical – Assessing Your Operation

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