

# Metal Accounting

PROFESSIONAL CERTIFICATE



Gain an appreciation of the diversity, techniques and methodologies to accurately, reliably and efficiently track metal production from mine custody transfer point of ore delivery into the process plant through to saleable product; including recognising and quantifying metal accounting uncertainties and biases.

This course introduces the principles of the AMIRA P754 Code of Practice for Metal Accounting as a means for enabling reliable metal accounting.

Gain the foundation and framework to deliver more accurate metal accounting reports and data outputs to support sound corporate governance, improved workflow across the business, enhanced financial forecasting and improved efficiency in gaining more value from mineral deposits.



**PD hours**

40 hours



**Delivery**

100% online



**Duration**

8 weeks

*Learn how to accurately track and estimate metal production from delivery into the process plant through to saleable product*

This is a comprehensive course, comprised of six modules delivered over six weeks, with a final two weeks to complete the assessment. The course consists of:

- Live interactive virtual classrooms (these sessions are also recorded and made available to participants)
- Pre-recorded videos, including interviews with industry experts and specialists
- Interactive learning activities and group discussions
- Additional readings, handouts and case studies
- Multiple choice knowledge check questions
- A final assessment

## Pricing

Professional Certificate

Member \$2,644

Non-member \$3,454

Prices are inclusive of 10% GST

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### Module 1 | Introduction to Metal Accounting and the P754 (Amira) Code of Practice

- 'Metal Accounting' in the minerals industry
- The context of the Amira Code and principles in the minerals industry
- Motivation for and benefits of accurate metal accounting
- Your role in providing the Competent Person with accurate and reliable information

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### Module 2 | Basic Statistical Concepts for Measurement & Sampling

- Accuracy (trueness & bias) & Precision (variability)
- Quantifying Error & Uncertainty: Types and sources, detecting changes, control charts.
- Comparing Quantities & Variances: T Tests & Propagation of Error
- Heterogeneity, Fundamental Sampling Error, Sampling Nomogram, Sampling Variogram

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### Module 3 | Mass Measurement and Sampling

- Measuring mass flow
- Sampling theory and basics
- Sampling process streams
- Sampling stationary materials
- Measurement systems monitoring

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### Module 4 | Sample Management, Sample Preparation and Laboratory Analysis

- Sample Management and Safety, Health and Environment
- Sample management and preparation
- Sample Analysis and QAQC

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### Module 5 | Data Analysis

- Metal balancing requirements and methods
- Handling Inventory and data
- Reconciliation

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### Module 6 | Data Management & Reporting

- Data storage and management principles
- Reporting audience and objectives
- Linking to financial reporting