



TECHNICAL AND FINANCIAL EVALUATION OF MINERAL PROJECTS

Imperial College
London

ERNST & YOUNG

Value Proposition

Our specialist programme on evaluation of mineral projects is designed to help participants to develop strategic approaches to evaluating projects at the pre-feasibility stage. This programme aims to cover the underlying accountancy, financial and technical principles that apply to mineral projects, and to demonstrate how these influence the way a financial model is constructed. We draw particular attention to the treatment of the key independent variables, such as grade, and dependent variables, such as grade-tonnage relationships, and the way these influence the rate of mining, associated costs and optimisation of the net present value of a project.

Target Audience

Professionals involved in mining finance, the evaluation of mining projects, mineral exploration, development and production. Those in the financial community involved in offering services and providing funding and investment options to the minerals industry.

Programme Duration and Structure

The programme runs over five consecutive days.

Programme Level

This programme has not been equated to any South African qualification.

Programme Certification

This programme is offered as an attendance programme. A certificate of attendance is awarded from Imperial College, London on successful completion of the programme

Cost and Dates

The cost and dates for this open enrolment programme are published on www.wbs.ac.za/exed, or Executive Education can be contacted for an in-company proposal.

Contact

011 717 3377
exed.wbs@wits.ac.za
www.wbs.ac.za/exed



Wits Business School



@ExEdWBS



Programme Content

Pre-course e-learning

To enable delegates to derive maximum benefit from the sessions, prior to the course we provide registered delegates with an internet url, user name and password giving access to the virtual learning environment for the course. Important course is available, including joining information, course materials and access to an EduMine e-Learning module, which provides an introduction to modelling project finance and covers the critical issues associated with the debt financing of mining projects. A fully integrated IC-MinEval generated spreadsheet model is included in the module, together with interactive review sessions.

IC-MinEval

We use IC-MinEval software, an Excel™-based spreadsheet programme automating all stages required to produce models for a wide range of mineral projects. The functionality of IC-MinEval is delivered over the internet through the Software as a Service (SAAS) system with InfoMine (<http://software.infomine.com/>). Delegates need their own laptop computers and we provide wireless access to the Business School's internet.

Lead Academic:
**Dennis Buchanan, Emeritus
Professor of Mining Geology
and Senior Research Fellow,
Royal School of Mines, Imperial
College London**

Professor Buchanan works jointly between the Department of Earth Science and Engineering and the Business School at Imperial College London, and acts as the Programme Director. His current research interest lies in addressing the underlying technical principles applying to mineral projects and demonstrating how these influence financial modelling. He is founder and Chairman of the Imperial College London start-up company, IC-FinEval Ltd, which provides financial evaluation, risk assessment and decision making software. He has 29 years' experience teaching mining geology, mineral exploration and mineral project appraisal, and is responsible for the MSc in Metals and Energy Finance. This is a new joint degree between the Department of Earth Science and Engineering and the Business School at Imperial College London. Professor Buchanan has worked as a Mining Geologist in both gold and platinum mines in South Africa and has wide experience as a consultant to industry, as an expert witness, and in designing and delivering short courses for industry.