

Prefeasibility Cost Estimating and Economic Evaluation



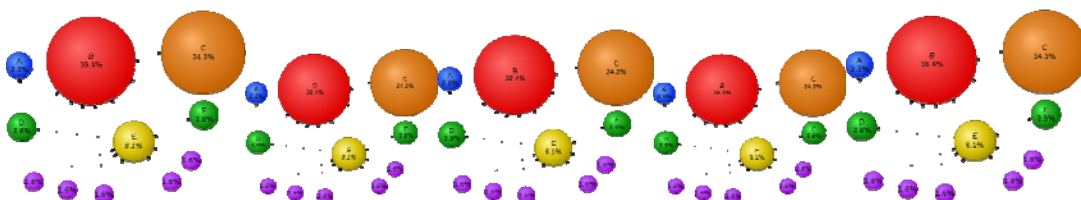
Provisional Schedule

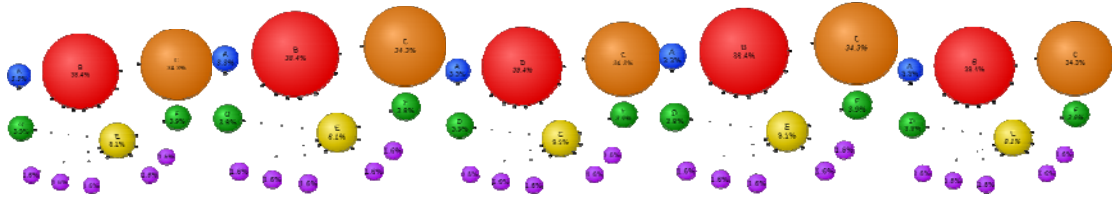
Instruction will take place from 9:00AM to 5:00PM on the first and second day, with a lunch break from noon to 1:00PM and 15 minute snack breaks in mid-morning and mid-afternoon, and from 9:00AM to 12:00PM on the third day. Topics covered will include the following:



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Day 1: 23 February, 2012

Introduction to Mine Cost Estimating:

- Why estimate costs
- Engineering based, itemized estimates

Itemized Cost Estimating:

Mine Planning Considerations:

- Introduction
- Mine plan
- Production rates
- Haulage paths and distances

Equipment Selection:

- Excavating/Loading
- Hauling
- Drilling

Auxiliary Equipment and Supply Needs:

- Hoisting, ventilation, and pumping
- Supplies
- Auxiliary equipment needs

Day 2: 24 February, 2012

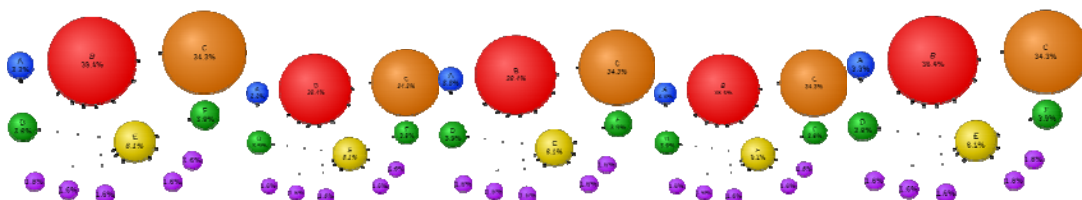
Itemized Cost Estimating (continued):

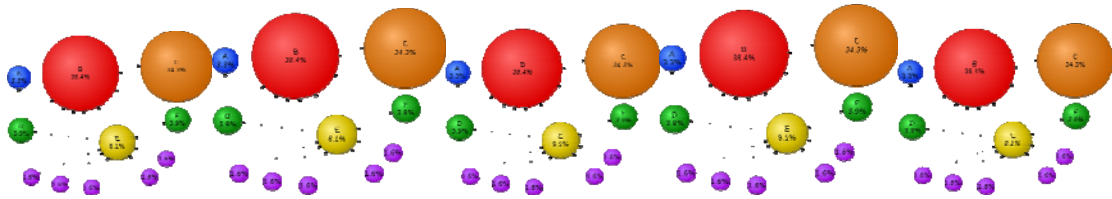
Rounding Out the Estimate:

- Personnel requirements and burden
- Preproduction stripping and haul road construction requirements
- Buildings and structures
- Haul road construction requirements
- Underground development
- Mineral processing

The Final Steps:

- Determine unit pricing and costs
- Operating cost summary
- Capital cost summary
- Sherpa Mine Cost Estimating software
- Spreadsheet-based modeling





Useful Estimating Tools:

- Cost indexes
- Scaling factors
- Geometric regression analysis

Real World Applications:

- Reliability vs. accuracy
- Geology and site characteristics
- What it costs vs. what we pay

Day 3: 25 February, 2012

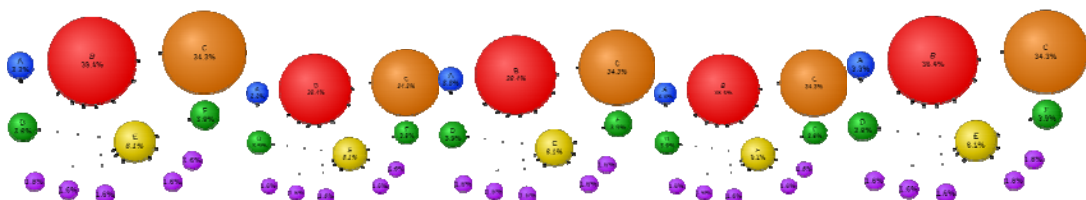
Economic Evaluation:

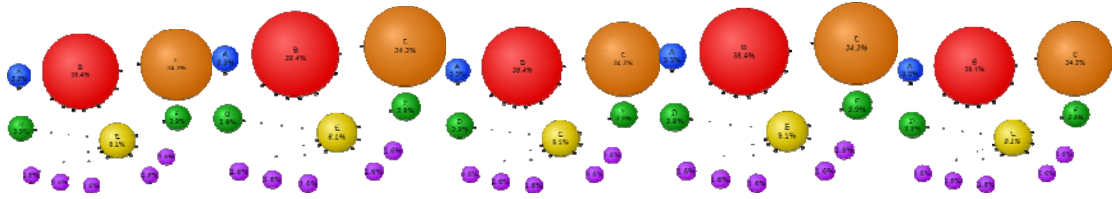
Net Present Value:

- Commodity values
- Discounted cash flows
- Apex Software for Economic Evaluation
- Comparative analyses
- The impact of project delays

Risk Assessment:

- Sources of uncertainty
- Bracketing unknown costs and determining distributions
- Monte Carlo Risk Assessment





Thank you

If you have any kind of relevant documentation share it with us

Follow us our social media

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