

# TALPAC BASIC

21 February, 2012 Maitland | 06 March, 2012 Perth | 20 March, 2012 Brisbane



## INTRODUCTION

The aim of this course is to provide users with an overview of Talpac: Runge's Truck and Loader productivity analysis software. Upon completion of this course, users will be proficient in navigating core Talpac interfaces and in using Talpac functionality to estimate and compare fleet productivity, evaluate alternative equipment sizes and configurations, assess haulage costs and generate user-defined reports.

## WHO SHOULD ATTEND?

This course is recommended for mining professionals who want to become proficient in the use of Talpac in evaluating haulage fleet productivity. Participants typically include mine planning engineers, operations engineers and supervisors and equipment supplier personnel.

## PRE-REQUISITE SKILLS

Participants are required to be computer literate. Participants should also have completed the Runge Principles of Mine Planning Course or have equivalent knowledge or experience. Some exposure to truck and loader operations would be ideal.

## DELIVERY METHOD

This course is delivered in a classroom environment with an emphasis on participant involvement through practical workshops.

## LEARNING OUTCOMES

At the completion of this course participants will be able to:

- Estimate truck travel time for alternative haul routes
- Estimate fleet productivities and determine the optimum loading technique, loading unit bucket size, truck capacity and number of passes
- Determine optimum fleet size
- Estimate load and haul costs per unit of production using discounted cash flow methods
- Estimate fuel usage and tyre duty

## COURSE CONTENT

### MODULE 1 - Getting Started

- Creating a new project
- Program and project settings
- Data inputs and outputs
- Haulage system components

### MODULE 2 - The Material Type

- Creating a material template

### MODULE 3 - The Shift Roster

- Setting up a shift roster template

### MODULE 4 - Selecting a Loader

- Navigating the loader database and reviewing loader specifications

### MODULE 5 - Selecting a Truck

- Navigating the truck database reviewing truck specifications and rimpull/retard performance curves
- Reviewing the selected truck template
- Entering user-defined operational, costing and statistical data
- Varying truck fleet size and truck type

### MODULE 6 - Setting up a Haul Cycle

- Deriving a haul cycle from a case study (provided) and entering into Talpac
- Importing a haul cycle into Talpac from a text file
- Entering rolling resistance, super-elevation and speed restriction data into a haul cycle

### MODULE 7 - Production Analysis

- Calculating fleet productivity and cost using a quick estimate or full simulation
- Calculating comparative productivities and load and haul costs as an aid to equipment selection
- Setting a production target
- Reviewing production, fuel and tyre usage and cost reports

### MODULE 8 - Incremental Analysis

- Generating an array of haul cycles by incrementing selected segments
- Reviewing and graphing production analysis results

### MODULE 9 - Fleet Size Optimisation

- Contrasting fleet productivity and cost to deduce optimum number of trucks allocated to loader
- Reporting marginal productivity and cost from each additional truck

### MODULE 10- Talpac Options

- Project options and customization: re-setting global variables and default values in Talpac
- Project Management: batch processing of a large number of production analyses

Fleet No	Fleet Size	Fleet Production Per Year (tonne)	Production Change %	Fleet Discount Capital Cost (\$/tonne)	Fleet Discount Operating Cost (\$/tonne)	Fleet Discount Avg. Cost (\$/tonne)	Cost Change %	Marginal Cost (\$/tonne)
12	1.00	1,859,032.10	0.00	0.19	0.87	1.05	0.00	0.00
13	2.00	3,281,887.90	77.81	0.18	0.81	0.78	-25.64	0.68
14	3.00	4,708,376.74	159.11	0.18	0.53	0.71	-32.82	0.64
15	4.00	6,848,126.05	252.32	0.18	0.53	0.72	-31.59	0.78
16	5.00	8,247,783.88	278.59	0.22	0.59	0.81	-23.57	2.04



# TALPAC BASIC

For over 20 years, Runge has been providing high quality training courses to the Mining Industry worldwide.

Our courses are recognised as unique in the Industry. The knowledge and challenges that Runge consultants deal with daily in project work and software implementations is captured and reflected in our high quality training courses.

Numbers are restricted to enhance learning, and participants can share experiences gained from their respective organisations. Runge's courses cover mine business planning and fall into the following major categories:

- Mining for Non Miners ( Coal and/or Metals Focus )
- Mining Economics
- Integrated Open Pit Coal Mine Planning
- Truck and Shovel Mining Systems
- Coal Seam Gas Reservoir Assessment
- Dragline Mining Systems

Other mining related courses could be developed and delivered on request. Runge can work with you to meet your training requirements. Please contact our Training Department to discuss your specific needs in more detail.



### DATE

- 21 February, 2012 Maitland Australia
- 06 March, 2012 Perth Australia
- 20 March, 2012 Brisbane Australia

### VENUE

Runge Limited Level 12 333 Ann Street, Brisbane QLD 4000 Australia	Runge Limited Level 3 251 Adelaide Terrace, Perth WA 6000 Australia	Runge Limited Maitland Venue - to be advised
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### TIME

8:30 AM - 5:00 PM

*Course attendance is limited to a maximum of 10 people. Please bring your own laptop with software loaded.*

## YES! PLEASE REGISTER ME FOR TALPAC BASIC

Yes! Please send me more information on other courses.

Name :	
Position :	
Department :	
Company :	
Site :	
Billing Address :	
City :	
State :	Postcode :
Ph :	Fax :
Email :	
Purchase Order No. :	

### CREDIT CARD DETAILS

<input type="checkbox"/> Bankcard	<input type="checkbox"/> Mastercard	<input type="checkbox"/> Visa	<input type="checkbox"/> American Express
Name on Card :		Expires on : /	
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### CANCELLATION POLICY

Registration may be transferred or cancelled with minimum 14 days' notice without cost penalty. Should you be unable to attend with less than 14 days before the course, a substitute delegate may attend at no extra charge. Alternatively, you may transfer your registration to another course date with an added service charge of \$200 per day of course (excl of gst). Runge Limited reserves the right to cancel a course at any time, in which case registration fees are fully refundable.

### REGISTRATION FEE

**\$1,300 p.p. (ex GST)**

Fee includes tuition, comprehensive course notes, workshop assignments and solutions, morning and afternoon coffee, lunch and certificate of completion. Once your booking is received your place is automatically reserved, and we will send you a confirmation of enrolment.

Contact: Linda Tat or Suzanne Hammelmann  
 Phone: +61 7 3100 7200  
 Fax: +61 7 3100 7297  
 Email: training@runge.com.au  
 GPO Box 2774, Brisbane, Qld 4001

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