



5 DAYS

## Certificate in Mine Environmental Control / Occupational Hygiene - Paper 2

(Thermal Engineering - Heat)



### Course Outcomes

The participant will be able to:

- Perform integral calculations pertaining to all aspects of the subject matter
- Comment on all aspects of the subject, recognise and utilise laws and formulae used for specific calculations
- Identify and state corrective action for anomalies, record and report on all measurements relevant to subject



### Course Contents

- Theory – heat and psychrometry
- The use of psychrometric equations
- Heat stress
- Heat transfer
- Virgin rock temperatures
- Heat sources
- Heat transfer in airstreams
- The cooling effect of air
- Heat and moisture changes
- Mixing airstreams and the resulting temperatures and heat



### Target Participants

- Candidates studying towards the Certificate in Mine Environmental Control



### Prerequisites

- Full Intermediate Certificate in Environmental Control
- 12 Months relevant experience (6 months for graduates) in the Environmental Control / Occupational Hygiene Department



### Course Dates

Refer to  
Course Schedule Dates  
(Available on Request)



### Facilitator

**Tinus Hayward**

For more information on this course contact him at [tinus@umoyavohe.co.za](mailto:tinus@umoyavohe.co.za) or on 083 455 2653



### Bookings

Contact our training Co-Ordinator:  
[training@umoyavohe.co.za](mailto:training@umoyavohe.co.za)  
or on 074 936 1364 (Request for list of suitable accommodation if needed)



### Costs

Quote to be requested

#### INCLUDES

- Lunches/Refreshments
- Tuition Fees

#### EXCLUDES

- Accommodation
- Breakfast/Supper