



PRACTICAL AUXILIARY MINE VENTILATION WORKSHOP

The purpose of this workshop is to provide mining operations with the basic tools for the day-to-day planning and effective operation of an underground mine auxiliary ventilation system. The target audience includes technologists, mine operators and engineers who are involved in the design, management and day-to-day operation of auxiliary mine ventilation systems. The presenter will be Dr. Euler De Souza, Associate Professor, The R.M. Buchan Department of Mining, Queen's University, Kingston, Ontario.

See additional course information on pages 2-3.

When _____

September 8-9, 2010

8:00 a.m. - 4:00 p.m.

Where _____

Travelodge, 1136 Riverside Drive, Timmins, Ontario, Canada Ph: (705) 360-1122

Registration Fee _____

\$800 + taxes per participant before August 4, 2010; **\$1000 + taxes** per participant after August 4, 2010. Lunch and refreshments will be provided.

How to Register _____

Please complete the registration form below and fax to (705) 472-5800 no later than **August 18, 2010**. Please submit a purchase order number or payment (cheque, Visa or MasterCard) prior to the course start date. Registrations will not be accepted by phone. *Register early to avoid disappointment.*

Cancellation Policy _____

- Registrants who provide *written* notice of cancellation at least one week prior to course start date will not be charged. Substitutions may be made at any time prior to the start of the course. Less than one week notice of cancellation or non-attendance will incur the full cost of registration.
- Workplace Safety North reserves the right to cancel or re-schedule a course. Registrants will be informed of any cancellations at least one week prior to the course start date. Workplace Safety North's liability is limited to the registration fee.

For additional information, contact:

Jean Chadbourn, Administrative Assistant, Field Services, Workplace Safety North
690 McKeown Ave., North Bay, ON P1B 9P1
Phone: (705) 474-7233, ext. 279 E-mail: jeanchadbourn@workplacesafetynorth.ca

PRACTICAL AUXILIARY MINE VENTILATION WORKSHOP

*September 8-9, 2010
Timmins, Ontario*

REGISTRATION FORM

Name _____ Title _____

Company _____ Division _____

Complete Address _____ City _____

Postal Code _____ Phone _____ Fax _____

Safety Contact Name _____ Email _____

Invoice Attention To _____ P.O. # _____

Visa/MasterCard # _____ Expiry Date _____ Amount _____

Name on Credit Card _____ Signature _____

Practical Auxiliary Mine Ventilation Workshop

Purpose

Auxiliary ventilation is required to dilute the fumes from blasting and diesel exhaust to a safe concentration required to maintain acceptable working conditions and to replace the oxygen used up by the workers and diesel equipment. It is also required control airborne dust and to control the temperature and humidity of the air in the working area. The purpose of the course is to provide mining operations with the basic tools for the day-to-day planning, design, installation, maintenance, and effective operation and monitoring of auxiliary mine ventilation systems.

Who Should Attend?

The target audience for this course includes mining engineers, technologists, mine operators and engineers who are involved in the design, management and day-to-day operation of auxiliary mine ventilation systems.

Program

This intensive workshop is designed to provide comprehensive training on auxiliary mine ventilation operation, planning and design as an integral part of day-to-day production. The first day is designed to familiarize the participant with standard techniques utilized in duct ventilation design and operation. Reference to case studies is made to demonstrate examples of good practice. The second day is dedicated to field testing of a duct system installation in an operating mine, including visual inspection, airflow and pressure surveys and air quality checks. The collected information will be used to develop detailed evaluation of the performance of the auxiliary ventilation installation.

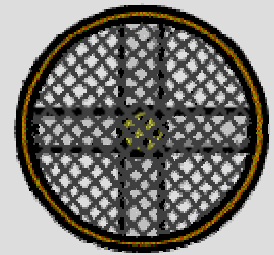
Participants are encouraged to bring along auxiliary ventilation technical material from their mining operation. This material is used in informal discussions that invariably turn out to be one of the most interesting aspects of the course. Participants are also encouraged to bring any specific problems to be solved during ventilation design sessions.

Topics

- regulations relating to auxiliary ventilation;
- ventilation requirements in headings;
- auxiliary ventilation system sizing and design;
- fan and duct selection;
- auxiliary ventilation installation practices;
- system maintenance, duct repair;
- ventilation checks and ventilation surveys.

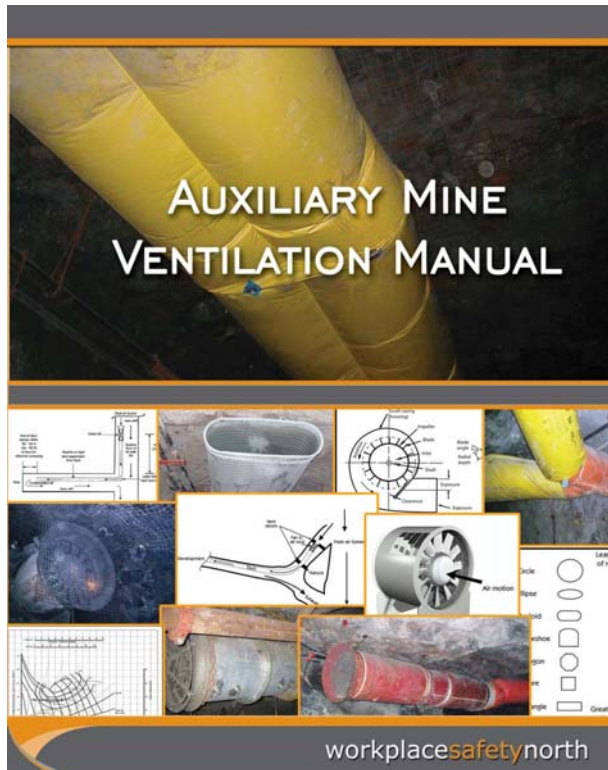
A duct ventilation training program for the ventilation operator.

- planning
- duct and fan selection
- installation
- control
- maintenance
- surveys



Course Materials

A comprehensive 135-page colour **Auxiliary Mine Ventilation Manual**, published in 2010 by Workplace Safety North Mining Sector, will be the primary text used to transfer technical and practical knowledge. This manual will become an important source of information in the workplace.



Chapters include:

- Mine ventilation principles
- Methods of auxiliary ventilation
- Auxiliary ventilation fans
- Auxiliary fan location and operation
- Auxiliary ventilation ducts
- Devices for controlling airflow
- Air volume and fan requirements
- Practical design and operational requirements
- Auxiliary ventilation design
- Surveys for verification of system compliance
- Management and operation of auxiliary ventilation systems
- Ventilation plans and emergency preparedness
- Glossary
- Ontario regulations pertaining to mine ventilation
- Health & safety considerations

Dr. Euler De Souza

Euler De Souza, a registered professional engineer in the Province of Ontario, is a mining engineer and technical advisor in mine ventilation and environment. He holds B.Sc., M.Sc. and Ph.D. degrees in Mining Engineering. He is affiliated with the Robert M. Buchan Department of Mining, Queen's University as an Associate Professor. He is President and CEO of AirFinders Inc., a company providing engineering services in mine ventilation.

Dr. De Souza is a well established and recognized advisor to industry in the area of mine ventilation. He provides consulting services to mining companies throughout Canada and overseas. He has organized the North American / 9th U.S. Mine Ventilation Symposium in 2002. This was the first time the symposium was held outside the United States.

Some of his recent advisory work to mining companies includes: mine ventilation planning and design; shaft ventilation; design of ventilation raises; ventilation surveys; ventilation computer modeling; fan sizing and commissioning; and ventilation optimization. He regularly performs ventilation audits for a number of mines and has been active in providing industrial training at mine sites in mine ventilation.

He is a member of the Canadian Institute of Mining, Metallurgy and Petroleum, the American Institute of Mining Engineers and the Mine Ventilation Society of South Africa.