

Rotating Electrical Machines Training

Comprehensive 3 day training course

Reduce the total cost of ownership of motors and generators by training your staff to move towards reduced operational costs and increased availability. This training covers the theory, operation and maintenance of rotating electrical machines.

Training Outline

The following modules will be covered during this training;

- Motor and generator construction
- Standards and specifications
- Correct operation and maintenance
- Energy efficiency
- Diagnostics and condition monitoring

Learning Outcomes

The following outcomes will be achieved through completion of this training.

Attendees will be able to:

- Understand Total Cost of Ownership and relate this to the assets
- Have a basic understanding of motor and generator design theory
- Apply international standards in the selection of new assets
- Understand operational considerations
- Trouble Shooting
- Better Understanding of of various test results



Training Location

We can conduct training on-site for your business, alternatively we can organise off-site facilities.

Who should attend?

Engineers, service technicians, electrical and mechanical maintenance personnel, who have beginner or intermediate level experience with motors and generators and their operation.

Inclusions

- 3 day training
- Course notes
- Online assessment
- Certificate of attendance



Participation in this course may be eligible for CPD. Please check with your authorising body for full details.



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Training Program Outline

Following is the program for Rotating Electrical Machines Theory, Operation and Maintenance Training

Dimensioning and Selection Criteria

Day 1

- Course introduction
- What is total cost of ownership?
- Basic theory of motors and generators
- Mechanical and electrical design and components
- International standards
- Motor and generator performance and starting considerations
- Motors in VSD applications (basic aspects)

Operational Considerations

Day 2

- Safety
- Installation and commissioning
- Energy efficiency
- TEAM stresses and the concept of equivalent operating hours
- Typical issues and their causes

Availability

Day 3

- Availability, maintainability, reliability
- Maintenance strategies: reactive, preventive and predictive
- Diagnosis and condition monitoring
- Online and offline tests
- Final test
- Summary

Assessment Method

Upon completion of this training, participants will be assessed for competencies by completing an online multiple choice examination within one week of the training. A certificate of attendance will be presented to each attendee.

Presenter

Dr Dmitry Chaschin has over 30 years of experience in rotating machines design, manufacturing and operation. As a designer and manufacturer he designed and supervised the manufacturing of the largest motors ever built in Australia. For the last 14 years Dr Dmitry Chaschin has been working in monitoring, repair and maintenance of motors and generators and is sharing his experiences using real life cases.



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Rotating Electrical Machines Training Registration Form

Please return completed form by email to training@machinemonitor.com or fax to +61 2 4946 2091

Name

Job Title

Company

Address

Suburb Postcode

Telephone Mobile

Email

Course

Cost

Payment Option

Purchase Order PO Number

Credit Card Credit Card Type VISA Mastercard

Credit Card Number

Cardholders Name

Cardholders Signature

Expiry CCV

Comments/Special Requirements (*dietary, access etc*)

Cancellation & Withdrawal Policy

Withdrawal received up to two weeks prior to the course will be subjected to a charge of \$100. There will be no refunds two weeks prior to the course. Delegate substitution is permitted prior to course commencing.



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