

Metso

Metso Academy

Crusher product training



Metso
ACADEMY



Our crusher training equips participants with the knowledge and skills required for safe and efficient operation and maintenance of Metso crushers. Training is delivered by our experienced team of in-house certified experts, and covers both basic knowledge of crushers and crushing technology, as well as customized training courses on optimal operation, maintenance, automation, and troubleshooting.

Training overview

- Provides basic theoretical and practical knowledge of crushing principles and safe operation both for beginners and personnel requiring refresher training.
- Customized training for experienced personnel for more in-depth knowledge.
- Suitable for operators, supervisors, and maintenance and technical personnel.
- Pre-defined modules allow for the tailoring of training content.
- Training delivered at Metso facility or on-site.

Through carefully designed course modules, this training covers the following elements:

1. **Safety** – guidelines on the safe use of crushing equipment and the relevant safety regulations.
2. **Technical overview** – mechanical, instrumentation, electrification and automation, as well as hydraulic overview.
3. **Operational overview** – crusher operation, parameter adjustment, and use of the operator interface unit.
4. **Maintenance and after-sales support** – guidelines on services and performing maintenance in a safe and correct manner.

Read more at metso.com/academy



Benefits

- Increased productivity
- Improved product shape
- Increased on-line availability
- Decreased maintenance repair costs

Crusher product training

Training course details

Crusher product training course is composed of four different modules.

Module	Typical content
Operation	Introduction, process and operational parameters, operating principles, lubrication operation, hydraulic power unit operation, log sheets, safety
Maintenance	Introduction, scheduled periodic maintenance, repair style maintenance, liner change maintenance, lubrication unit, hydraulic power unit, safety

Recommended training days per equipment type

Module	Gyratory	Cone	Jaw
Operation	1 day	1 day	½ day
Maintenance	1 day	1 day	½ day

Theory training

Classroom-based course which covers basic operation principles, operator interface, safe use of Metso crushers as well as after-sales support. This course is intended for operators, supervisors, maintenance personnel, and technical specialists, and can also be used as a refresher course for personnel who already possess a basic knowledge of crushing equipment.

Customized training courses

These courses are custom made to meet our customer's specific needs. They are designed to build up competence in Metso products and provide more in-depth information for designated equipment. Customized training courses provide thorough information on our equipment and technologies, process optimization insights as well as service procedures and tips to help customers move from reactive to proactive maintenance. These custom courses are normally a combination of classroom and practical training.

Your contact

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Bayswater WA 6053



Dress Code

PPE not required, closed in shoes, smart casual, long pants.



Accessibility

Our premises are accessible to people with reduced mobility.



Primary gyratory crusher training

Content

Overview of the machine

- Operating principle
- Range of MK Series Crushers
- Main machine components
- Comparison of standard versus a super spider
- Technical specifications

Wear parts

- Installing concaves
- Installing mantles
- Installing bottom shell and arm liners

Operation

- Safety rules to be respected
- Tools
- Starting and stopping the machine
- Starting loaded
- Clearing an uncrushable
- Crusher volume and power limits
- Keeping a crusher observation log

Periodic maintenance

- Checks to be carried out

Optimizing machine operation

- Crusher feed rules
- Adjusting the crusher parameters

Training objectives

At the end of the training, you will be able to:

- Identify and name parts precisely
- Understand the basic rules for operating the primary gyratory crusher
- Planning maintenance operations
- Operate machine to OEM specifications/design



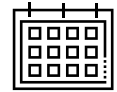
Target audience

Operators
Supervisors
Technical specialists
Maintenance personnel



Two day course

1 day - Operation
1 day - Maintenance



Duration

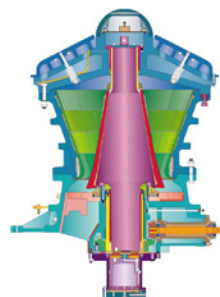
8am - 5pm
9h incl. breaks

Course pricing

\$1500.00 AUD excl GST per participant

Whats included

- Morning, afternoon tea and lunch
- Course material
- Certificate of participation





C Jaw crusher training

Content

Overview of the machine

- Operating principle
- C Jaw crusher range
- Machine components and assembly
- Mechanical and hydraulic control systems
- Optional equipment
- IC10C automation

Wear parts

- Different liner types
- Choice of liner profile
- Hardening and turning over of liners

Operating instructions and safety rules

- Machine start-up and shut-down procedure
- Safety rules to be respected
- Influence of feed on crusher performance
- Rules for filling the cavity module
- Speed and power settings
- Minimum setting indicated in user manual
- Measuring and adjusting the setting

Periodic maintenance

- Checks to be carried out
- Bearing lubrication
- Replacement of liners

Optimizing machine operation

- Influence of feed and adjustment on the product
- Reacting to a problem:
 - liners life too short
 - crusher capacity too low.

Training objectives

At the end of the training, you will be able to:

- Identify and name parts precisely
- Understand the basic rules for operating the C Jaw crusher
- Planning maintenance operations
- Operate machine to OEM specifications/design



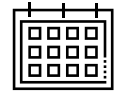
Target audience

Operators
Supervisors
Technical specialists
Maintenance personnel



One day course

½ day - Operation
½ day - Maintenance



Duration

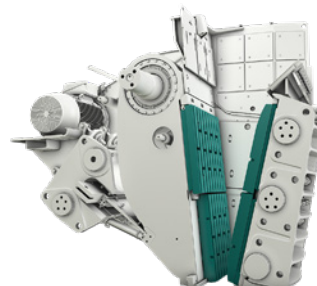
8am - 5pm
9h incl. breaks

Course pricing

\$825.00 AUD excl GST per participant

Whats included

- Morning, afternoon tea and lunch
- Course material
- Certificate of participation





Cone crusher training

MP, HP, GP and Symons

Content

Overview of the machine

- Operating principle
- Machine components and assembly
- Range of cone crushers
- Automation

Wear parts

- Different types of liners (profiles and materials)
- Choose the correct crushing chamber
- Running-in and work hardening liners

Operating instructions and safety rules

- Machine start-up and shut-down procedure
- Safety rules to be respected
- Crusher feed rules
- Adjustment of the crusher
- Ring bounce problem
- When should liners be changed?

Periodic maintenance

- Checks to be carried out
- Replacement of liners

Disassembly/reassembly

- Disassembly/reassembly procedure
- Tightening rules
- Replacing wear parts
- Checks to be carried out when replacing wear parts

Optimizing machine operation

- Influence of various parameters on crusher performance and finished product

Hydraulics – lubrication

- Lubrication circuit and components
- Hydraulic circuit and components

Training objectives

At the end of the training, you will be able to:

- Identify and name parts precisely
- Understand the basic rules for operating the cone crusher
- Planning maintenance operations
- Operate machine to OEM specifications/design



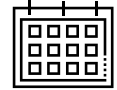
Target audience

Operators
Supervisors
Technical specialists
Maintenance personnel



One day course

1 day - Operation
1 day - Maintenance



Duration

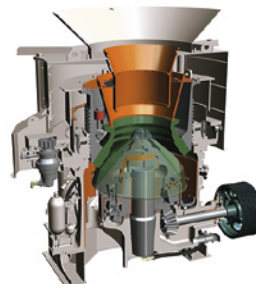
8am - 5pm
9h incl. breaks

Course pricing

\$1500.00 AUD excl GST per participant

Whats included

- Morning, afternoon tea and lunch
- Course material
- Certificate of participation





Metso is a frontrunner in sustainable technologies, end-to-end solutions and services for the aggregates, minerals processing and metals refining industries globally. We improve our customers' energy and water efficiency, increase their productivity, and reduce environmental risks with our product and service expertise. We are the **partner for positive change**.

[metso.com](https://www.metso.com)

