

MINERAL PROCESSING OPERATOR (MPO)

MPO 100 Resource Safety and Certification

3 Credits

This course offers several certifiable and non-certifiable safety training modules necessary for effective and safe employment as a Mineral Processing Operator. Components include: Occupational First Aid Level 1, Transportation Endorsement, H2S Alive Certification, WHMIS Certification, Confined Space Certification, Fall Protection Certification, and Lock-Out.Tag-Out Procedures.

Transfer Credits

Explore transfer credit opportunities by visiting the BC Transfer Guide (<http://www.bctransferguide.ca>)

MPO 101 Introduction to Mining and Mining Jobs

2 Credits

Students will obtain an insight into mining and mining jobs so as to determine whether they want to pursue education and employment related to the mining industry. Discussion on the mining cycle provides an overview of the numerous mining-related jobs. Jobs are discussed and the required education needed to qualify for the jobs. The mine and mine mill tour provides a realistic look at the working environment at a mine. This is the second course of the Mineral Processing Operator program.

Transfer Credits

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MPO 102 Essential Skills for the Mine Workplace

4 Credits

Students will obtain reading, writing, math, and computer skills required of a Mineral Processing Operator at a mine. In addition, students will learn other essential skills to obtain and maintain employment applicable to the mine workplace, as well as other workplaces. Topics include camp life, employer expectations, discrimination / harassment, violence in the workplace, conflict resolution, employee rights, critical thinking, and job search skills.

Prerequisites

Take MPO 101 with a minimum 70%

Transfer Credits

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MPO 103 Mine Workplace Safety

2.5 Credits

Students learn workplace safety related to a Mineral Processing Operator conducting their duties in a mine mill. Training topics follow the National Occupational Standards for this job position. Topics include mine safety legislation, company safety policies and procedures, mine hazards, handling energy sources safely, emergency procedures, handling reagents safely, personal protection equipment, radio and signal use, environmental polices and procedures, and safe rigging.

Prerequisites

Take MPO 101 and MPO 102 with a minimum 70% each

Transfer Credits

Explore transfer credit opportunities by visiting the BC Transfer Guide (<http://www.bctransferguide.ca>)

MPO 104 Introduction to Ore Processing Methods

2.5 Credits

Students will discuss various minerals, precious metals and stones; discuss traditional methods to extract and recover them as well as using newer ore processing technologies. Students will spend time in a science lab environment using basic equipment to conduct sampling and lab work.

Prerequisites

Take MPO 101, MPO 102 and MPO 103 with a minimum of 70% each

Transfer Credits

Explore transfer credit opportunities by visiting the BC Transfer Guide (<http://www.bctransferguide.ca>)

MPO 105 Grinding Processes

2.5 Credits

Students use METSO equipment training software to learn the technical details of rock grinding equipment at a mine site. With this computer-based training, students study the fundamentals, unit operations, and circuits of grinding. This training is required of Mineral Processing Operators.

Prerequisites

Take MPO 101, MPO 102 MPO 103, MPO 104, and 107 with a minimum of 70% each.

Transfer Credits

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MPO 106 Flotation & Filtration Process - METSO Software CBT

3.5 Credits

Students use METSO equipment training software to learn the technical details of rock grinding equipment at a mine site. With this computer-based training, students study the fundamentals, unit operations, and circuits of grinding. This training is required of Mineral Processing Operators.

Prerequisites

Take MPO 101, MPO 102, MPO 103, MPO 104, MPO 105, and 107 with a minimum of 70% each

Transfer Credits

Explore transfer credit opportunities by visiting the BC Transfer Guide (<http://www.bctransferguide.ca>)



MPO 107 Primary Crushing

1.5 Credits

Students use METSO equipment training software to learn the technical details of rock crushing equipment at a mine site. With this computer-based training, students study the fundamentals, unit operations, and circuits of crushing. This training is required of Mineral Processing Operators.

Prerequisites

Take MPO 101, MPO 102, MPO 103, and MPO 104 with a minimum of 70% each

Transfer Credits

Explore transfer credit opportunities by visiting the BC Transfer Guide (<http://www.bctransferguide.ca>)

MPO 199 Mine Site Work Experience

6 Credits

Students are taught hands-on at an operating mine. Students practice safety while they learn duties related to monitoring and operating mill processing equipment.

Prerequisites

Take MPO 100 MPO 102 MPO 103 MPO 104 MPO 105 MPO 106 and MPO 107 with a minimum 70% each

Transfer Credits

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