

Mine of the Future Academy

Leadership in Climate-Smart Mining

A short course



BUILD PRACTICAL KNOWLEDGE AND PREPARE TO LEAD ON CLIMATE-SMART MINING

Are you a mid-level or senior professional in a mining company, industry association, or a business linked with mining who wants to understand more about climate-smart mining (CSM) and lead on climate-smart change?

The Mine of the Future Academy is the place for you!

Designed and taught by internationally recognized leaders and technical experts, this practical short course will prepare you to lead and deliver on CSM by:

- Building your technical foundation and operational knowhow through thought-leading CSM insights, case studies, and the sharing of real-world experiences.
- Equipping you with the expertise to implement energy transition, adaptation, resilience, and inclusive approaches at the mine site.
- Connecting mine site action to global climate action goals.
- Understanding global drivers to create momentum for CSM.

INTERACTIVE LEARNING, REAL-WORLD IMPACT FOR BUSY PROFESSIONALS

Relevant to your role: Whether you work in finance, operations, engineering, HSE, HR, or other functions, this course adapts to your needs as you gain the skills to drive lasting change in your department and company. You'll be assigned a tutor, who will provide guidance as you identify and tackle a specific workplace climate-smart challenge.

Flexible and engaging: Get the grounded knowledge you need through interactive sessions designed for busy working professionals and tailored to adult learning styles. We maximize impact while minimizing the time in live settings.

Cross-function community of practice: We help you build a community of practice and create common ground among functions. You will leave equipped to share the value of CSM with colleagues across the business, building momentum for the future.



Climate-Smart Mining

THE CLIMATE-SMART MINING (CSM) INITIATIVE, launched in 2019 as a public-private partnership jointly led by the World Bank (WB) and the International Finance Corporation (IFC), provides advice, analytics & knowledge, and capacity building to resource-rich developing countries and responsible mining companies.

ITS GOAL is to help these countries and companies decarbonize, enhance climate resilience, and reduce the material footprint of critical mineral supply chains essential for the clean energy transition, while enabling host communities and societies to benefit equitably from the increasing demand for such minerals through sustainable development.

ITS TECHNICAL ASSISTANCE AND CAPACITY BUILDING PILLAR focuses on targeted interventions designed to strengthen institutions involved in the upstream segment of the mineral supply chain. By providing tailored technical assistance and advisory services, it addresses country-specific needs to ensure support is both relevant and effective. Activities under this pillar include developing technical resources, enhancing regulatory frameworks, and building institutional capacity to advance responsible and sustainable practices.

[Click here to learn more.](#)

PROGRAM DESIGN

4 self-paced learning modules: Each core module consists of about 10 learning hours, stretched over 4 weeks, which can be completed at your own pace. Your assigned tutor will provide feedback, and you'll have opportunities for interaction with peers.

4 webinars: A regular space for learning and to ask questions on each module, share ideas and shape your own work project. Guest speakers and technical specialists will share deeper knowledge and experiences and be on hand to discuss hot topics. For optimal preparation and learning impact, we recommend completing the associated self-paced module prior to the webinar.

Certification options: Earn a certificate by completing core modules and short knowledge checks, and by attending the webinars or viewing the replays.

Add-on for participants from Zambia: In-person training workshop and networking: Two days of in-person mentoring on your project and networking with other participants in Zambia.

WHAT WILL I LEARN?

The self-paced learning core modules will cover the six pillars of the Climate-Smart Mining Framework, and the webinars will reinforce the learning:

Module 1: Low/Zero Carbon Solutions: Planning and implementing energy efficiency, electrifying equipment, integrating renewable energy, and planning and procurement practices; forward-looking perspectives on digitization, precision processes, fleet transition, and future energy sources.

Module 2: Resilience and Adaptation: Use climate resilience assessments as a tool to understand mine asset, value chain, and community climate risks, followed by effective prioritization and actionable strategies.

Module 3: Circular Economy: Innovations, trends, and value in re-mining/reprocessing mine residues, remediating/repurposing post-mining lands, and approaches to improved waste management of non-mineral wastes, linking to broader theory and practice.

Module 4: Governance, Innovation and Productivity, and Investment De-Risking: De-risking investment and market opportunities in minerals projects through climate action; general market trends, pressures and opportunities to decarbonize; climate governance and management considerations; innovation, productivity, and asset economics; and access to finance and sustainable finance.

All core modules will:

- Cover nature-based solutions, technology-based solutions, and new principles and practices in resource management.
- Integrate inclusive and considered approaches, including gender-responsive climate-smart practices and community intersects.
- Explain the climate action touchpoints, for roles in finance, operations, engineering, HR, HSE, and community engagement.
- Connect mine level actions with global priorities and trends.

For specialists, **there will also be additional live webinars** addressing:

- Skills development and planning for climate transition and resilience priorities.
- Inclusive and empowering stakeholder engagement on climate priorities.
- Policy and regulatory engagement priorities for climate action.

Who is eligible?

- Mid-level to senior working professionals in mining.
- Based in Malawi, Namibia, South Africa, Tanzania, or Zambia.
- Intermediate proficiency in English at a minimum.
- Access to smartphone, laptop, or PC and an internet connection.

Who are the instructors?

- Experts from the Columbia Center on Sustainable Investment at Columbia University, the Sustainable Minerals Institute at The University of Queensland, and the World Bank Group, along with prominent local partners.

When is the course?

- Online training and webinars: **February–April 2026.**
- For participants in Zambia, optional networking and mentoring: **April or May 2026.**

How do I participate?

- Participation is **free of charge**; however, **space is limited**. The program is capped at 60 participants.
- **Applications close January 23, 2026.** You will find out whether your application has been accepted by February 6, 2026.

[Click here to apply](#)



For more information, contact:
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