

# Strategy Analysis and Trends in the Copper Mining Industry

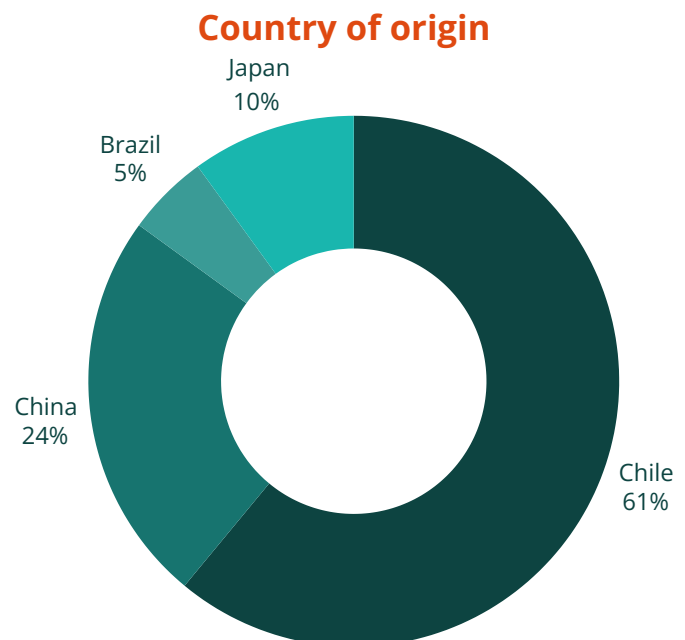
## Professional Certificate

During the week of September 9th to 13th of this year, the second version of the certificate program "Strategy Analysis and Trends in the Copper Mining Industry" took place. This was co-organized with the Department of Mining Engineering (DIMIN) from the University of Chile.

The professors responsible for this collaboration from DIMIN were Luis Felipe Orellana, Assistant Professor, and Ph.D. in Geomechanics from Ecole Polytechnique Fédérale de Lausanne, Switzerland; and Emilio Castillo, Assistant Professor, Ph.D. in Mineral and Energy Economics from the Colorado School of Mines, and Director of CESCO.

The certificate program was attended by 21 professionals from the mining industry representing the following companies and institutions:

- Antofagasta Minerals
- Anglo American
- Beijing Metal Challenge Global Trading
- Capstone Copper
- China Ordins Group
- CleanTech Lithium
- CNMC International Trading
- Cochilco
- Consejo de Competencias Mineras
- EMIN Ingeniería y Construcción
- Jiangxi Copper Company Limited
- Lidenbrock
- Mining Ministry
- Mitsubishi Materials Corporation
- Mitsui & Co
- Nexa Resources
- South32
- The Raring Corporation
- Zijin International Trading Co.



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The activities were organized into morning and afternoon sessions. In the morning sessions, we had lectures from distinguished actors in the mining industry, who provided analysis based on their areas of expertise. The topics covered were:

- **Global Copper Market Outlook**, by **Daniela Desormeaux**, MSc. Economy major in Public Policies, Pontificia Universidad Católica, Chile and Director of CESCO.
- **Mining Business Cycle, Investments, Projects, and Operations**, by **Francisco Acuña**, MSc. Industry, Trade and Development, University of Manchester, UK; Chemical Engineer, Universidad de Concepción, Chile.
- **Future Availability of Copper**, by **Irene del Real**, assistant professor, Universidad Austral and Ph.D Economic Geology, Cornell University, USA.
- **Copper Mining ESG Challenges**, by **Willy Kracht**, former UnderSecretary of Mining, and Ph.D in Mining and Materials Engineering, McGill University, Canada, and CESCO member.
- **Market Analysis, Supply Drivers**, by **Juan Ignacio Guzmán**, Ph.D in Mineral Economics, Pontificia Universidad Católica de Chile, and CESCO member.
- **Supply Chain Management in Copper Trading**, by **Roberto Ecclefield**, MSc Industrial Engineering, Pontificia Universidad Católica de Chile, Chile, and director of CESCO.
- **Competitiveness Analysis**, by **Roderick Eggert**, Viola Vestal Coulter Foundation Chair in Mineral Economics, Colorado School of Mines, USA.

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In the afternoon sessions, we had master lectures on various topics:

- **Minerals Project Development**, Jaime Rivera, General Manager of Capstone Copper Mantos Blancos.
- **Responsible Production**, Alejandra Wood, Director of Codelco.
- **Technological Innovation**, Nury Briceño, innovation expert and Partner at Sinncronia.
- **Competitiveness, a view from Peru**, Miguel Inchaustegui, former Minister of Energy and Mines of Peru and Shared Value consultant.

We also had guided discussions led by the DIMIN team, which resulted in deliverables at the end of each session, and a final presentation where each group shared their key findings at the end of the certificate.

Finally, on Friday, a group from the course participated in a guided visit to CEMIN's Amalia Plant, an electrowinning cathodes producer.



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**CARMEN VEGA** | Operational Excellence Manager, Los Pelambres, Antofagasta Minerals

*"What motivated me was to gain a strategic and high-level understanding of the market. Even though one might hold an executive position with high-level decision-making responsibilities, we are often much more connected to tactical and operational decisions, and we lose sight of the company's strategy. We're not seeing the full picture of how the market behaves. The course has helped me connect with concrete actions."*



**CARLOS SILVA** | Head of the Strategy and Public Policies, Division, Mining Ministry



*"Participating in the course offered by CESCO has been a transformative experience both professionally and personally. It provided me with the opportunity to delve deeper into key concepts and current trends throughout the entire value chain of the mining industry, gaining cutting-edge knowledge directly from the sector's leading experts. From my position at the Mining Ministry, I am convinced that the knowledge and insights gained during this week will be of great value in policy making and developing public initiatives that promote the competitiveness and sustainability of the mining industry in Chile."*

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*"We sincerely appreciate collaboration opportunities like these, as they connect us with the academic sphere and provide the chance to create spaces for debate, fostering cooperation between public and private entities, both nationally and internationally. This enhances how we face challenges and seize opportunities in the sector more comprehensively and efficiently."*

**Leopoldo Reyes, Chairman of CESCO**

