

INTERNATIONAL DIPLOMA COURSE ON TAILINGS: MANAGEMENT, OPERATION, OPTIMIZATION AND NEW TECHNOLOGIES 2DA EDICIÓN 2023 - 2024

INSTRUCTOR: ENG. JOSÉ LUIS DE LA CRUZ

Start: August 4th, 2023 **End:** May 31st, 2024

Horario: Friday: 7:00 p.m. to 9:00 p.m. / Saturday: 9:00 a.m. to 11:00 a.m. (peruvian time)

PRESENTATION

Mining companies and new mining projects are implementing new construction and tailing disposal methods for a safe mine operation, closure and post closure. Therefore, the importance of knowing the applications of the Global Standard Systems in Tailings Management, such as the Mining Association of Canada "MAC", Towards Sustainable Mining "TSM", International Council on Mining and Metals "ICMM", all worth to learn in this so competitive and globalized era.

In the present century, more than 9 tailings dam have collapsed in the world, other 15 incidents were reported that could have been catastrophic collapses; this has led to improve and globalize the new Standards in the Management of Mining Tailings.

INTERMET, once again committed with the Environment and promoting Sustainable Development, is pleased to present the International Diploma Course in Tailings Management, which provides two important concepts to participants: Management Tools in the Identification of Hazards, evaluating and assessing all the risks existing in Tailings Dams and the Global Management Systems in Tailings Operations.



PLATAFORMAS

Consists of online classes, most of them in live and some pre-recorded. Streaming is via Zoom and a virtual platform is provided to download materials, post videos and evaluations/assignments.

CURRICULAR STRUCTURE

1. Origin of mining and generation of tailings in the world	8 horas
2. Definition of minerals and mining tailings	8 horas
3. Environmental liabilities in main countries	8 horas
4. Evolution of the Equipment used during the tailings processes	8 horas
5. Tailings Disposal: upstream, downstream and main axis	8 horas
6. Geometallurgy of tailings to identify the disposal method	8 horas
7. Basic construction concepts for tailing dam	8 horas
8. Thick tailings disposal	8 horas
9. Paste tailings disposal	8 horas
10. Filtered tailings disposal and filtered equipment	8 horas
11. Tailings physical & chemical stability	8 horas
12. Comparative costs of the different disposal methods	4 horas
13. Geotechnical instrumentation for tailing dams	4 horas
14. Elaboration of the operations and surveillance handbook	4 horas
15. Engineer of Record "EoR" and Leadership in Tailings Management	4 horas
16. Elaboration of the tailing dam closure	4 horas
17. Circular Economy in Tailings Management	4 horas
18. New technologies for Tailings Reuse	4 horas
19. Backfill in underground mining	4 horas
20. Support with shotcrete in underground mining	4 horas
21. Tailings Management: Mining Association of Canada "MAC"	4 horas
22. Tailings Management: Towards Sustainable Mining "TSM"	4 horas
23. The International Council on Mining and Metals "ICMM"	4 horas
24. Tailing dam guideline "ANCOLD"	4 horas
25. Presentation by different experts*	10 horas
26. Final Evaluation	4 horas
27. Onsite visit to a real tailings dam	8 horas



SCHEDULE

- On Friday: 7:00 p.m. to 9:00 p.m. / Saturday: 9:00 a.m. to 11:00 a.m. (peruvian time)
- From August 4th, 2023 to May 31st, 2024
- The onsite visit to the tailings dam will be held in a date to be confirmed prior agreement with participants availabilities.
- It will be conducted by a main instructor, an assistant instructor and guest speakers. Speakers will be managers from mining operations or from engineering or research companies of international prestige who will validate the concepts and cases of the different topics of the diploma, therefore, schedules may be programmed at different times.

Languages: Spanish with simultaneous English interpretation

Recorded classes will be storage in platform with access to participants any time.

ADMISSION:

Professionals with experience in mining operations or research centers.

DIPLOMA CERTIFICATION

ETo be issued by International Metallurgical Consultants (InterMet) well known in main mining operations in Latin-America.

80 % attendance is required and a passing grade in the evaluation. Signed by the main Instructor, InterMet General Manager, along with QR code, number if of hours, grade and date. No format nor expiration date are inserted.



INSTRUCTOR



ENG. JOSÉ LUIS DE LA CRUZ

**CHEMICAL ENGINEER WITH OVER 26 YEARS
IN THE MINING INDUSTRY**

Chemical Engineer with over 26 years in the mining industry, from which 19 years were dedicated to Tailings Management in Medium and Large Scale Mining.

Studied a 2nd specialization in Environmental Management and Slope Stability. In 2018, he finished his MBA in Business Administration in Miami.

He has started up and optimized 4 Tailings Dams, 3 in Peru and 1 in Cuba.

He has conducted research on new disruptive technologies in Tailings Stabilization with high acid drainage generation, at ATL Metallurgy in Perth Australia in 2019 and at Profiq Laboratory in Mexico.

He is currently developing applications of Nanotechnology for Tailings Reuse in Construction and Circular Economy Applications, also is advisor in Quebrada Blanca II project in Chile.

Moreover, he is designing a Filtered Tailings Plant in a Gold Mine in Ecuador and a Tailings Dam Closure in Southern Peru - Cuzco with Nanotechnology.

He is Manager of Tailings and Development of New Technologies at PowerTailings Technologies. He is a technical advisor in Tailings at PowerCem in Holland and consultant for InterMet in Peru.

INVITED SPEAKERS

- Eng. Hilario Gorvenia. (Metso:Outotec)
- Eng. Marco Gutiérrez.(MMG Minera Las Bambas)
- Eng. Humberto Villanueva (Minera Las Bambas)
- Eng. Saúl Quispe (First Quantum, Minera Panamá)
- Eng. Vidal Mamani.(Consortio Minero Horizonte)
- Eng. Boris García (Gran Colombia Gold)
- Eng. Herbert Raza (Minera Goldmins)
- Eng. Gustavo Gainza (Knight Piesold)
- Eng. Dante García (Molycop)
- Dr. Ramón Silva - PROFIQ México



INVESTMENT: USD 2,500

Travel, transportation, accommodation, food expenses , taxes, commissions are not included.

PAYMENT METHODS

- Bank transfers (commissions are not included)
- Payment link
- Western Union (request data)
- Money Gram ((request data)

TRANSFER

- **Deposit at Bank:**
BANCO DE CRÉDITO DEL PERU
- **Beneficiary:**
INTERNATIONAL METALLURGICAL CONSULTANTS S.A.C.
- **Account Number in Dollars :**
193-1872625-1-12
- **SWIFT code :**
BCPLPEPL
- **Inter- bankcode:**
00219300187262511219
- **Bank Address :**
Jr. Lampa 499. Lima , Peru



PAYMENT LINK

<https://pagolink.niubiz.com.pe/pagoseguro/INTERMET/1878639>

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