

A Report on

WORLD ACCREDITATION DAY #WAD2022

**ACCREDITATION: SUSTAINABILITY IN
ECONOMIC GROWTH AND THE ENVIRONMENT**

APAC celebrated World Accreditation Day (#WAD2022) on 09th June 2022 to promote the value of accreditation in the region. World accreditation day is a global initiative established by ILAC and IAF to promote the value of accreditation. This year's theme was 'Accreditation: Sustainability in Economic Growth and the Environment'.

09th June 2022, APAC organized a webinar on the theme: Accreditation: Sustainability in Economic Growth and Environment". APAC invited participations from across the economies in the region. The webinar received an overwhelming response by participation of over 100 participants from various Accreditation Bodies, associations and other stakeholders.

The first session of the webinar 'Assuring compliance in Sustainable development' commenced by the welcome and introduction by Mr. Graeme Drake, ISO/TC 207 SC 3, Environmental Labelling Chair.

Ms. Kwei Fern Chang, APAC Chair; - Ms. Fern shared the updates on APAC and its strategic plan in supporting circular economy/ resource optimization, ensuring consistency and accuracy in data from the validation and verification of GHG emissions, sustainability of APAC in supporting International Conformity Assessment Framework.

Mr. Reinaldo Figueiredo, ISO CASCO Chair briefed about the ISO portfolios, Standards in the Climate Action and ISO/ CASCO strategic directions.

Mr. Ekanit Romyanon, APEC SCSC Chair; "Importance of conformity assessment in achieving Net Zero Emission Target"

Ms. Sinclair Vincent, Director, Sustainable Development, Innovation & Market, Verra deliberated upon Quality assurance principles and Principles in Plastic standards for Implementing Sustainable Environment Schemes through Certification.

Dr. Aparna Dhawan, APAC CPC Chair delivered the talk on 'Accreditation Supporting Fight against Climate Change'. She updated the audience about the various areas where in Conformity Assessment plays a vital role like Conformity Assessment Infrastructure in Climate Change, Management systems, processes, products, personnel, Energy efficiency and energy performance of buildings etc.

- Moderated by Ms. Iti Saxena, Deputy Director, NABL

The second session was a panel discussion on 'Role of Quality Infrastructure for monitoring the Climate change'. The panel discussion was graced by

- Mr. Niels Ferdinand, Consultant, PTB Germany
- Stephanie Tanner, Lead Engineer, USEPA, WaterSense programme
- Mr. Martin Michelot, Executive Director, TIC Council
- Mr. Richard Laity, PEFC, South East Asia Manager

The session deliberated upon the role of stakeholder and their collaborations for effective implementation of climate change actions across the supply chain. The session proposed the way forward in aligning the role of stakeholders to reduce the impact on climate change.

Moderated by Mr. Greg West, Director, Customer Success Group, IAS

ACCREDITATION

Sustainability in Economic Growth
and the Environment



#WAD2022

WAD 2022 Official Poster

THE REGIONS CELEBRATED WORLD ACCREDITATION DAY AS WELL, AND
THE CELEBRATIONS IN EACH REGION ARE OUTLINED BELOW.



A2LA CELEBRATES WORLD ACCREDITATION DAY

June 9, 2022, is World Accreditation Day celebrated globally since 2007. The 2022 World Accreditation Day (WAD) theme is Accreditation: Sustainability in Economic Growth and the Environment. How can accreditation support two visions: economic growth and a healthy environment, two objectives that frequently seem to have different end goals.

United Nations Sustainable Development Goals and Accreditation

In 2015, The United Nations General Assembly established seventeen interlinked global goals designed to be a “blueprint for achieving a better and more sustainable future for all,” with the vision that these goals are to be achieved by 2030. Specific to the 2022 WAD theme, we will focus on three of the UN Sustainable Development Goals (SDGs): 6) Clean Water and Sanitation, 7) Affordable and Clean Energy, and 8) Decent Work and Economic Growth.

The SDG 8 Decent Work and Economic Growth

Accreditation is based on conformity assessment standards. Organizations are assessed to determine if they meet these voluntary conformity assessment standards. Organizations that demonstrate that they meet the criteria are granted accreditation and must continue to demonstrate that they meet that level of conformity assessment and technical competence.

Elements of these standards provide a framework that supports and enables the organization to operate at a higher level of efficiency and quality. Core principles include impartiality and confidentiality, which help guide the organization’s ethics; resource requirements provide a structure to help the organization maintain a sufficient number of trained and experienced personnel, operating equipment, and suitable facilities. Documentation and record requirements help facilitate more efficient processes and communications throughout the organization. Management system requirements include internal audits, risk assessments, corrective actions, and management reviews, which raise work quality and reduce the need for costly and time-consuming re-work. These principals help foster a setting for economic success.

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The SDG 6 Clean Water and Sanitation

As we learned about the water cycle in elementary school science, we know that there is a finite amount of water and that every drop is precious. Accreditation aids UN SDG 6 by providing accreditation to laboratories that test drinking water quality. The United States Environmental Protection Agency (EPA) sets legal limits for over ninety contaminants in drinking water. The Safe Drinking Water Act allows States to set and enforce their drinking water standards, provided they meet the EPA minimum standard or are more stringent. A2LA provides assessments to environmental testing laboratories analyzing drinking water. This benefits the consumer by assuring safe drinking water is coming to the tap. Accreditation benefits the state agencies by providing a resource to conduct assessments so that the agency can direct sometimes limited resources elsewhere.

Another area A2LA Accreditation supports SDG 6 is through our recognition with the US EPA WaterSense Program. Under this voluntary initiative, the US EPA identifies products such as toilets, showerheads, faucets, and irrigation controls determined to use at least 20 % less water, use less energy and perform as well or better than regular models. The EPA relies on International Laboratory Accreditation Cooperation (ILAC) and International Accreditation Forum (IAF) accreditation bodies to provide the accreditation services to the product certification bodies that test and certify the products that are awarded the EPA WaterSense seal. Consumers benefit from this program by being able to refer to a listing on the EPA website to find products that meet the criteria. Shoppers benefit when they see the WaterSense label on products on the store shelves. Manufacturers benefit because water and energy conscience-minded consumers look for their products. The agency benefits because it can rely on the accreditation bodies to provide the assessments enabling the agency to redirect resources. The global environment benefits because this program has saved over 5.3 trillion gallons of water since 2006 and more than 968 billion gallons saved since 2020!

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The SDG 7 Affordable and Clean Energy

A2LA Accreditation supports the alternative energy industry through providing services to commercial and government testing laboratories and product certification bodies.

Wind turbines are tested to determine noise levels, overall performance, power quality, and structural tests on the blades, including mechanical loads, safety and function.

Product certifications include certifications for compliance and ratings based on American Wind Energy Association Standards and Solar Rating & Certification Corporation criteria.

Another area A2LA supports the alternative energy sector is in solar. We accredit testing laboratories that perform testing on solar photovoltaic equipment. Performance testing is conducted on solar collectors to determine efficiency and effective thermal capacity. Qualification testing is also performed to determine glass breakage, hail resistance, thermal cycling, humidity-freeze cycling, structural strength, and heat loss. In addition to laboratory accreditation, we also have a product certification accreditation for Solar Heating & Cooling Product Certifications.

A2LA also accredits several laboratories for the testing of biofuels. Biofuels are any fuel derived from plant, algae material, or animal waste. According to the US Department of Energy, the two most common biofuels in use are ethanol and biodiesel. Examples of areas that accreditation covers for biofuel testing include automotive emission testing to US Federal Fuel Economy Standards, Global Test Procedures, Particulate Contamination, and California Non-Methane Organic Gas Test Procedures. The physical and chemical properties of biofuels are also tested including ash content, calorific value, moisture content, Total content of C, H, and N, inorganic content, sulfur content, and oxygen stability.

A2LA also provides accreditation services for the electrical vehicle sector. Electric vehicles and hybrid vehicles are tested to ISO standards to determine the performance, reliability, and electrical functionality of the battery packs and systems. Several laboratories are accredited for testing lithium batteries for safety and performance. Accredited laboratories also test electrical vehicle charging stations to UL and IEC Standards.



World Accreditation Day in India was jointly hosted by National Accreditation Board for Testing and Calibration Laboratories (NABL) and National Accreditation Board for Certification Bodies (NABCB) on 09th June 2022, this year theme being "Accreditation: Sustainability in Economic Growth and the Environment".

The inaugural session started with the welcome address by Dr. R. P. Singh, Secretary General, QCI. He welcomed all the participants and the dignitaries who graced the inaugural session. He emphasised that accreditation will continue to help quality improvement through a variety of ways. Accredited bodies are being relied upon by country's regulators now for oversight over regulations.

Mr. N. Venkateswaran, CEO, NABL conveyed the joint message from the ILAC – IAF Chairs. He further mentioned that the United Nations Sustainable Development Goals (UN SDGs) set specific goals for the world to focus upon now and also in the future. The important aspect of the SDGs is that they promote both economic growth and the environment, which are linked by a common ambition to achieve long term results.

The event was also graced by Mr. Rajeev Kher, former Commerce Secretary, Government of India. In his special address Mr. Kher appreciated the extraordinary work being done by NABL in granting accreditation to various laboratories performing testing in various sectors like soil, water, food and drug. He further mentioned that Accreditation is a test of a Conformity Assessment Body's competence & impartiality in carrying out conformity assessment tasks. It benefits the home economy and the international trade of a country.

Mr. Adil Zainulbhai, Chairperson QCI shared his thoughts in the plenary address through a video message. He spoke on how Accreditation and MRAs helps global trade to overcome technical barriers. He mentioned how accreditation can help fulfil our Honourable Prime Minister's vision of sustainable development. He further expressed- when we say "Make in India" we mean that we aim to meet both global demands & global acceptance. We strongly recommend you consider Zero Effect & Zero Defect while purchasing any product. Accreditation helps across all sectors of market including medical devices, toys, agriculture, food and drug.

Mr. Anil Agrawal, Additional Secretary, DPIIT, in his keynote address mentioned that when a laboratory has a Quality Management System in place that meets the requirements of the ISO 15189 quality standard, it is accredited. It must be maintained and improved on a regular basis in order to maintain quality and retain accreditation.

A video "Unveiling of QCI" was released in the event of World Accreditation Day.

Mr. Rajesh Maheshwari, CEO, NABCB delivered the vote of thanks to all the dignitaries and thanked each one of them for their enlightening talk.

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NABL & NABCB CELEBRATES WORLD ACCREDITATION DAY

Technical Session- Accreditation: Sustainability in Economic Growth and the Environment

Mr. N. Venkateswaran CEO, NABL chaired & invited the dignitaries of the technical session.

Mr. K.P. Tripathi, Coordinator (Accreditation), Education Div., ICAR, shared his thoughts on the topic "Accreditation: Driving Economic Growth through Improving Quality of Agricultural Produce". He spoke on how accreditation forces institutions to meet & maintain high standards, enhancing public trust and confidence in them while also raising accountability.

Mr. Arun Tripathi, Advisor & Scientist G, Ministry of New & Renewable Energy (MNRE) spoke on the topic "Role of Accreditation in Sustainable Development through Clean Energy". He further mentioned that devices used in the harnessing and monitoring of consumption of both traditional and renewable energies are subjected to laboratory testing for determining their performance. He further explained how accreditation is helping in providing clean energy, which is further helping in controlling environmental pollution.

Ms. Ekta Agrawal, Asst. Director, DGCA gave a thought-provoking talk on "Importance for Verification of Emissions in International Aviation". Further she emphasised on the Verification Course for Carbon Offsetting & Reduction Scheme for International Aviation (CORSIA) which instructs how to verify CO2 Emissions reports generated by aeroplane operators in line with CORSIA Standards & Recommended Practices (SARPs).

Dr. K. Ranganathan Sc. E & DH, Central Pollution Control Board (CPCB) delivered a talk on "Role of Accreditation in Maintaining Clean Environment". He further emphasised on the role of accreditation in verification of technical competencies of the laboratory technician and environmental laboratories. NABL accreditation has helped the environmental laboratories to give accurate and reliable results.

The WAD 2022 celebration was attended by 250 onsite participants and 350 online participants. The celebration ended with a Q&A session and acknowledged the role of accreditation in attaining sustainable development goals related to Sustainability in Economic Growth and the Environment.



WORLD ACCREDITATION DAY 2022



Mr. N Venkateswaran
Chief Executive Officer
NABL



Dr. K.P Tripathi
ICAR



Mr. Arun Tripathi
MNRE



Ms. Ekta Agarwal
DGCA



Mr. K Ranganathan
CPCB

ACCREDITATION: SUSTAINABILITY IN ECONOMIC GROWTH AND THE ENVIRONMENT
TECHNICAL SESSION



KAZAKHSTAN NATIONAL CENTER OF ACCREDITATION CELEBRATES WORLD ACCREDITATION DAY

On 7 June 2022, Kazakhstan National Center of Accreditation of the Republic of Kazakhstan (NCA) held a round table conference in a hybrid format on the topic: "Accreditation: Sustainability in Economic Growth and the Environment", dedicated to the World Accreditation Day. The round table was attended by representatives of international organizations, government agencies, the business community, public associations, accredited entities, as well as other interested parties.

The meeting was opened with welcoming remarks by Director General of the National Center for Accreditation Mr. Kainar Taizhanov. He noted that the two main pillars of the target sustainable development can safely be called economic growth and environmental protection. "Accreditation meets people's needs by confirming that products are safe and meets the expected level of quality. Conformity assessment services stimulate the introduction of new technologies and support economic and industrial growth, contribute to trade capacity building in various areas, so that international trade and technical progress benefit every country", said Mr. Kainar Taizhanov.

"This year's theme of World Accreditation Day was chosen to draw attention to the important role of accreditation in achieving sustainable economic growth and, importantly, environmental protection. As the ecosystem comes under increasing stress from climate change, habitat disruption is viewed through the lens of sustainability. A significant shift to more sustainable forms of production that are less resource-intensive and highly focused on climate change mitigation as well as reduction of carbon emissions is necessary for long-term economic growth", said Mr. Arman Abenov, Chairman of the Committee on Technical Regulation and Metrology of the Ministry of Trade and Integration of the Republic of Kazakhstan.

The meeting discussed the role and significance of accreditation in the implementation of sustainable economic growth, environmental protection, climate change, CORSIA program (carbon offset and reduction system for international aviation). Discussed the proposed three stages of implementation of this system, agreed on joint steps for the development of this direction.

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**KAZAKHSTAN NATIONAL CENTER OF ACCREDITATION
CELEBRATES WORLD ACCREDITATION DAY**

During the meeting, the Managing Director of the Economic Research Institute Mr. Bauyrzhan Mukhan made a report on development of circular economy in Kazakhstan. "This system allows us to achieve the renewability of resources. Here we are dealing with a system in which waste, emissions and energy loss are minimized by improving technological processes. Circularity implies a return of resources to ecological and economic systems. It also minimizes material losses through the recycling of a product. This goal can be achieved in various ways: from product design to more environmentally friendly behavior", shared Mr. Bauyrzhan Mukan.

In addition, Dr. Alexis Valqui, PTB consultant in the field of quality infrastructure, trade and agricultural development, gave his presentation in a remote format. The foreign speaker talked about the response of the Quality Infrastructure to the needs of the circular economy.

Ms. Aiman Yesekina, Head of the Department of greenhouse gas inventory of "Zhasyl Damu" JSC, raised questions relating to the participation of Kazakhstan in international agreements on global climate change, which are in force in Kazakhstan. Considered the methodology for calculating greenhouse gas emissions, the definition of operators of the trading system of carbon units.

Ms. Asel Araltay, Ecologist, Strategic Development and Stakeholder Engagement Department of "Aviation Administration of Kazakhstan" JSC briefly presented the activities of Aviation Administration of Kazakhstan. The Aviation Administration of Kazakhstan with 100% state participation began its activities in 2019 year, the main function of which is technical control and supervision in the field of flight safety and aviation security. The model created is similar to that of the British UKCAA, which is also a state corporation. The administration is financed by international air navigation fees, which is also used in foreign practice. This approach is implemented for the first time in Kazakhstan and among the CIS countries.

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**KAZAKHSTAN NATIONAL CENTER OF ACCREDITATION
CELEBRATES WORLD ACCREDITATION DAY**

ICAO Global Aviation Training (GAT) ICAO Verification Instructor Mrs. Valentina Idrisova gave a presentation on the CORSIA accreditation process. Mrs. Valentina Idrisova spoke about the basic requirements of ICAO document Annex 16 "Environmental Protection" Volume IV "Carbon offset and reduction scheme for international aviation" in comparison with the standard ISO 14065:2013 "Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition". The ICAO requirements are additional aviation industry requirements to ISO 14065:2013.

Mrs. Yerkezhan Amirkhanova spoke about green standards for low-carbon regulation. Today in Kazakhstan have been adapted 174 of 702 existing ISO standards. Of these 174 standards, 161 are national standards of Republic of Kazakhstan (ST RK), and another 13 - Interstate standards (GOST). Thus, 528 ISO standards need to be adapted. ISO to date has developed more than 200 standards, containing issues on energy efficiency and renewable energy sources. Kazakhstan has adopted 14 ISO standards in the field of renewable energy sources.

As a result of the round table, it was decided:

- Concentrate efforts in the implementation of the goals of sustainable economic growth and the environment;
- To study the accreditation process for the ICAO CORSIA carbon offset and reduction scheme for international aviation;
- Strengthen interaction between government agencies and the business community to apply international standards in environmental protection, green economy, environmental sustainability and climate change;
- Actively promote the introduction and development of modern approaches in the field of conformity assessment, taking into account internationally-recognized practices;
- Build the capacity of experts in the quality infrastructure, taking into account international experience.



**PAKISTAN NATIONAL ACCREDITATION COUNCIL (PNAC)
CELEBRATES WORLD ACCREDITATION DAY**

Pakistan National Accreditation Council (PNAC) celebrated WAD 2022 at Pearl Continental Hotel, Lahore on 9th June 2022. PNAC has raised awareness through print media and delivered messages to the public, highlighting the importance of World Accreditation Day focusing on this year's theme "Sustainability in Economic Growth and the Environment". More than 200 relevant stakeholders participated in the one-day seminar.



A supplement was published in leading newspapers to highlight the importance of accreditation and its role in the economy of the country. Messages from Minister Science and Technology, Secretary Science and Technology, Director General PNAC, and Joint Statement from IAF and ILAC Chairs are published in the leading newspapers of Pakistan.



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PAKISTAN NATIONAL ACCREDITATION COUNCIL (PNAC) CELEBRATES WORLD ACCREDITATION DAY

A follow-up event was also organized to celebrate WAD and as a sensitization program for socioeconomic development in the Organization of Islamic Countries (OIC) at the Committee on Scientific and Technological Cooperation (COMSTech), Islamabad for the foreign diplomats, policymakers, heads of organizations of relevant ministries including Ministry of Science and Technology, Ministry of Commerce and Trade, Ministry of Health, Ministry of Agriculture and dignitaries.



PRESS COVERAGE

Accreditation Day

August 4, 2022

Daily COUNTRY NEWS AUGUST 4, 2022

COMSTech, PNAC Celebrate Accreditation Day



Daily TECHNOLOGY Times www.technologytimes.pk AUGUST 4, 2022

COMSTech And PNAC Celebrate Accreditation Day



The Patriot AUGUST 4, 2022

COMSTech and PNAC Celebrate Accreditation Day



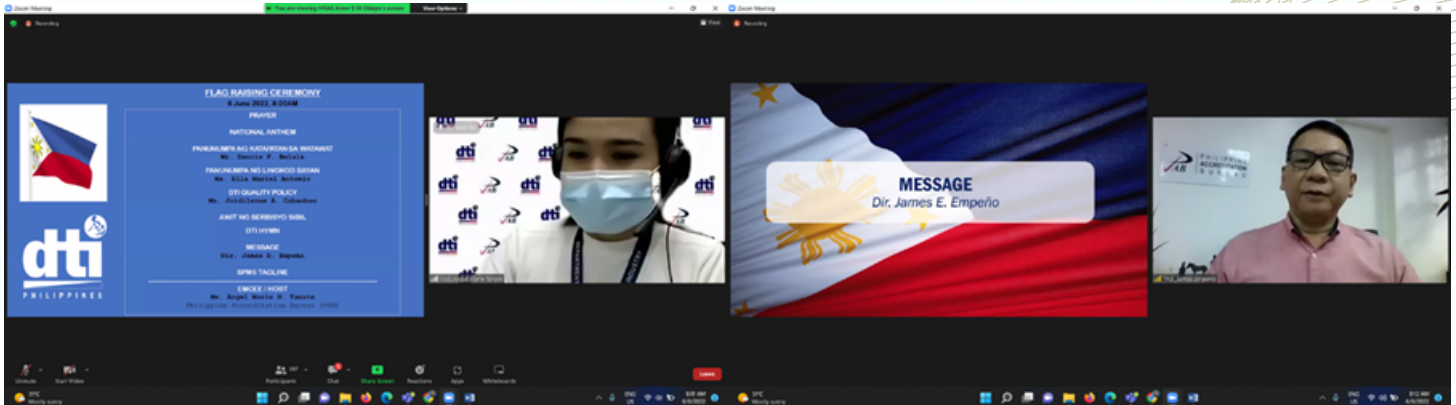
NHT National Herald Tribune

ABC version 5, 2022, Volume 5, 1245 Founder: Ghulam Akbar 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st, 32nd, 33rd, 34th, 35th, 36th, 37th, 38th, 39th, 40th, 41st, 42nd, 43rd, 44th, 45th, 46th, 47th, 48th, 49th, 50th, 51st, 52nd, 53rd, 54th, 55th, 56th, 57th, 58th, 59th, 60th, 61st, 62nd, 63rd, 64th, 65th, 66th, 67th, 68th, 69th, 70th, 71st, 72nd, 73rd, 74th, 75th, 76th, 77th, 78th, 79th, 80th, 81st, 82nd, 83rd, 84th, 85th, 86th, 87th, 88th, 89th, 90th, 91st, 92nd, 93rd, 94th, 95th, 96th, 97th, 98th, 99th, 100th, 101st, 102nd, 103rd, 104th, 105th, 106th, 107th, 108th, 109th, 110th, 111th, 112th, 113th, 114th, 115th, 116th, 117th, 118th, 119th, 120th, 121st, 122nd, 123rd, 124th, 125th, 126th, 127th, 128th, 129th, 130th, 131st, 132nd, 133rd, 134th, 135th, 136th, 137th, 138th, 139th, 140th, 141st, 142nd, 143rd, 144th, 145th, 146th, 147th, 148th, 149th, 150th, 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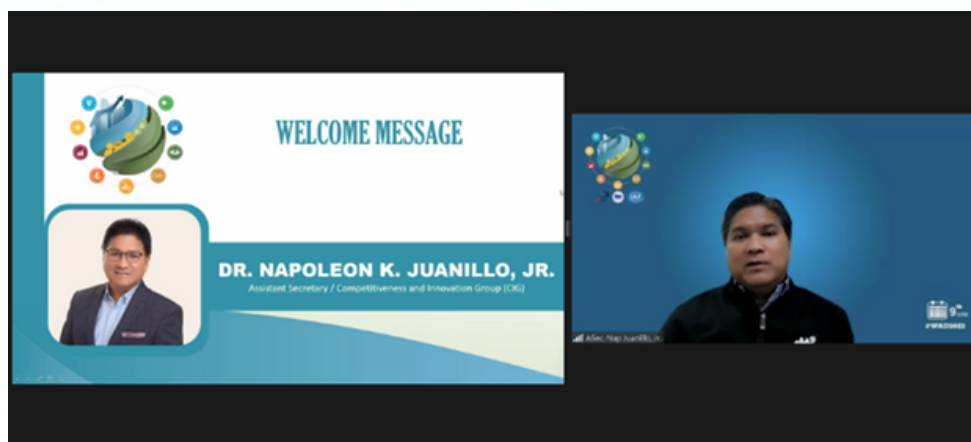
**DTI-PAB
CELEBRATES WORLD ACCREDITATION DAY**

The Philippine Accreditation Bureau (PAB) commemorated the occasion by hosting the virtual flag-raising ceremony for the Department of Trade and Industry on June 06, 2022, to encourage agency personnel to attend the upcoming forum.



On June 9, 2022, a Zoom forum on Accreditation: Sustainability in Economic Growth and the Environment was held with the goal of promoting the value of accredited conformity assessment activities.

In his welcome message, Dr. Napoleon K. Juanillo Jr., Assistant Secretary of the Department of Trade and Industry's Competitiveness and Innovation Group mentioned the importance of accreditation to various sectors. "Accreditation provides policymakers, businesses, and other stakeholders with solutions to implement, measure, and monitor the SDGs' objectives and targets," Asec. Juanillo said.

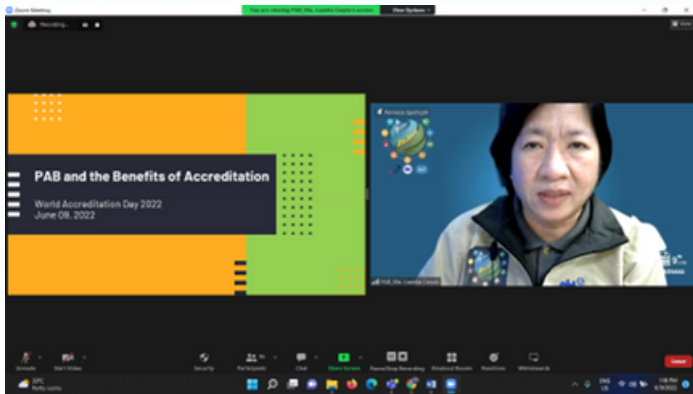


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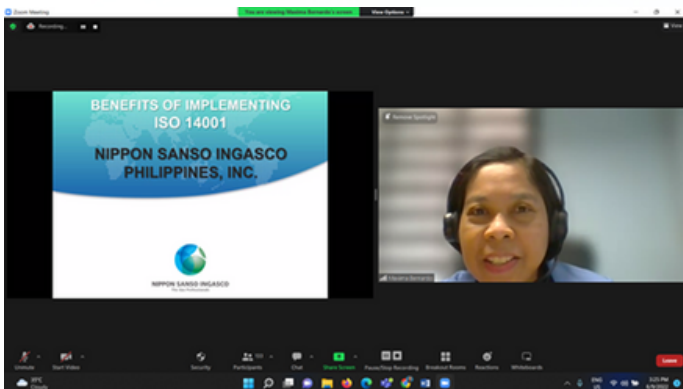
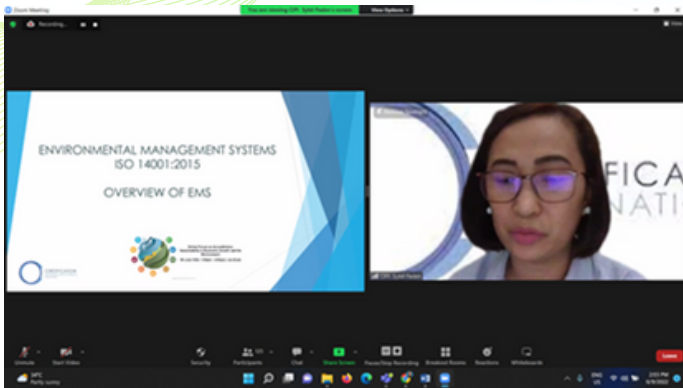


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Engr. Maria Juanita P. Carpio, Chief of the DTI-Management System Accreditation Division, presented the Philippine Accreditation Bureau's mandate and the benefits of accreditation.

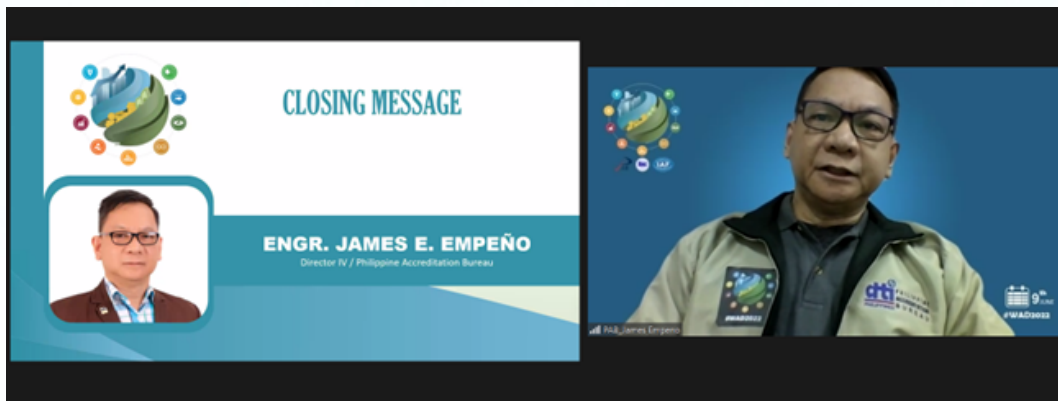


Engr. Sybil C. Paden, Director of Business Development at Certification International Philippines, Inc., was invited to present an overview of the ISO 14001 (Environmental Management System). On the other hand, Engr. Jason Magdaong of Didipio Mine/OceanaGold Philippines and Engr. Ma. Maxima Bernardo of Nippon Sanso Ingasco Philippines, Inc., discussed their experiences in obtaining accredited certification and the benefits of implementing ISO 14001 on their respective organizations.

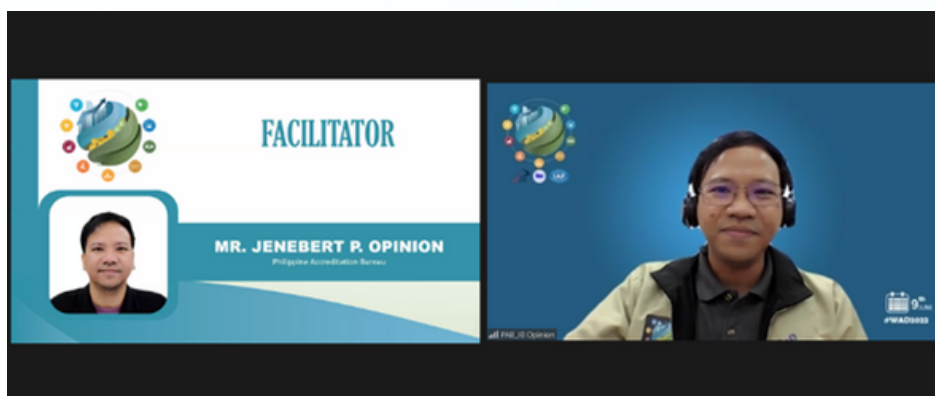
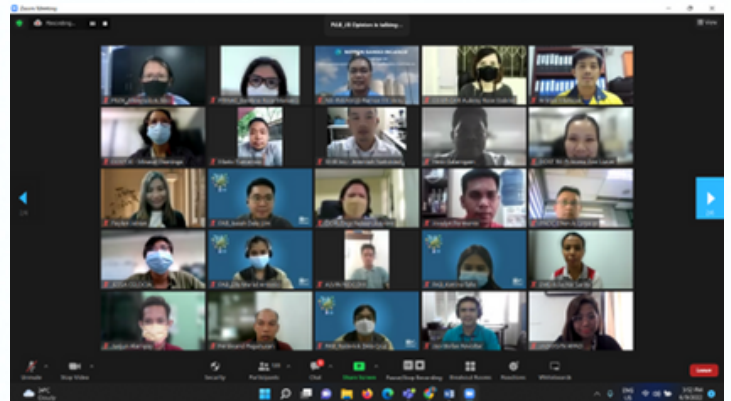


**DTI-PAB
CELEBRATES WORLD ACCREDITATION DAY**

DTI-PAB Director James E. Empeño delivered the closing remarks, thanking all participants and speakers. He emphasized that the World Accreditation Day celebration focuses on how accreditation supports broader global issues, and that, "the cooperation of all organizations is the key in ensuring our commitment to a brighter future for all and a world in which no one is left behind."



The forum, facilitated by Mr. Jenebert P. Opinion was participated by 137 participants from various government agencies and organizations.



In celebration of World Accreditation Day, the Saudi Accreditation Centre held a seminar under the title "Accreditation: Sustainability in Economic Development and the Environment" via remote video communication with participation from the international accreditation bodies and national centres. The seminar was attended by more than 100 specialists and interested attendees.

The Saudi accreditation centre has covered many topics, including environmental commitment as a source of sustainability for the national economy, the waste management policy in Saudi Arabia and sustainable development goals. Moreover, Mr. Hassan Al-Wahaibi, the Deputy Executive Director of Operations at the Saudi Accreditation Centre, gave a comprehensive presentation of the centre's services, procedures, and regulations, in addition to the Jordanian accreditation system and the sustainable development goals in the Kingdom of Jordan.

Dr. Adel bin Abdulrahman Al-Qaid, the Executive Director of the Centre, opened the seminar by speaking of the Centre's goals and its contribution to reaching the Kingdom's quality system to the top ten countries in the world by 2030 and the Saudi Accreditation's endeavour to raise awareness of the importance of accreditation and quality in all sectors.

The seminar was attended by the Chief Executive Officer of the British Accreditation Authority, Mr. Matt Gantley, who confirmed the essential role of accreditation in the quality infrastructure. Mr. Gantley spoke about the contribution of mutual recognition between international accreditation bodies to make the exporting goods easier and less costly to reach new markets. Then, Mr. Gantley stated that the accreditation has a significant contribution to the UK economy, ranging from 600 million to one billion pounds sterling, according to studies by the London Group.



Dr. Abdullah Al-Sibai, CEO of the National Centre for Waste Management, reported that the transition to a circular economy will contribute to a domestic product of around 120 billion by 2035. Dr. Al-Sibai also stated that the majority of recycling operations are not economically feasible. The work of National Centre for Waste Management in Saudi Arabia is currently working to issue technical guidelines on the mechanism for implementing waste management activities. The centre is focusing on achieving its mission based on the principle of circular economy to contribute to environmental protection and quality of life.

The seminar was also enriched by Eng. Lana Marashda, Director of the Jordanian Accreditation Unit. Eng. Marashda spoke about the direct connection of accreditation with sustainable development goals. Then, Eng. Marashda emphasised that the accreditation gives confidence in the purposes used in protecting the environment. At the end of her speech, she mentioned that water quality control laboratories in the Kingdom of Jordan are obligated to obtain accreditation.

Eng. Ahmed Al-Malki, the Chairman of the Council of the Saudi Society for Quality in Medina, stated that the environmental protection activities need to be approved to increase their credibility, and the presence of environmental protection associations contributes to creating a culture and providing initiatives to address environmental issues. He added that the global economy during the last twenty years had doubled fifteen times, and with this massive transformation, there has been an enormous consumption of natural resources that affects the concept of sustainable development and the need to ensure sustainable protection to preserve the resources for future generations.

The symposium closed with a speech by Eng. Yasser Al-Shehri, the Environmental Advisor at the National Centre for Monitoring Environmental Compliance in Saudi Arabia. Eng. Al-Shehri stated that the National Environment Strategy aspires to raise the level of environmental commitment for all development sectors and enables the National Centre for Environmental Compliance to the environmental commitment by considering the air quality and safety. The centre will have a monitoring station in every region and governorate in the Kingdom of Saudi Arabia to calculate the spread of pollutants.