

# Master of Science in Global Health Procurement and Supply Chain Management (Online Course)



**Enroll Now!**

Pharmacists, doctors, scientists, engineers and management professionals, prepare yourself for an international career with:

Ministries of Health, International NGOs, UN agencies and International Donors

# Benefits

- Career growth and new opportunities in Ministries of Health, UN agencies, donors' programs and international NGOs
- Potential for internships and consulting opportunities through Empower's extensive partner network
- Exclusive access to Empower's 10,000+ strong alumni
- Mentorship during the course and on-the-job technical assistance by Empower faculty
- Use of cutting-edge e-learning technologies and instructional design to make learning easy and impactful
- A practical and applied approach with the extensive use of exercises and global case studies

## Technical Assistance

Enrolled students will receive on-the-job technical assistance through our remote digital network and platform. This will include academic support and technical support from Empower's global mentors.



## Consultancy and Placement Support

Empower supports its alumni with internships, consultancies and new job openings through its network. Our alumni work with UN agencies and Ministries of Health on supply chain projects, including strategy, policy, assessment, data analysis, LMIS projects, market research and more.



# Master of Science in Global Health Procurement and Supply Chain Management (24-Month Programme)

## Overview of Course Topics:

Sequence	Module Name	Overview
1	Introduction to Procurement and Supply Chain Management	Develop an understanding of health commodities and all the steps in a typical PSM cycle in global health. The concept of essential medicines will also be explored.
2	Public Health Commodities	In this module, students will develop a basic understanding of health commodities, review how products on the national treatment guidelines are arrived at, including the process, persons involved, key strengths and gaps. A detailed understanding of the essential medicines concept will be explored.
3	Quantification and Supply Planning	Understand the fascinating science behind the methodology, tools and key processes used to estimate your country's needs for health commodities. We discuss the consumption method, morbidity method and proxy consumption method, and how they apply to different product categories and contexts.
4	Global Health Procurement	Learn about the factors that influence prices, the different procurement methods, good pharmaceutical procurement, methodologies used in supplier selection, financial sustainability in procurement, and procurement assessment.
5	Inventory Management	Understand the key role that Inventory Management plays in ensuring a robust supply chain. The module covers the concepts of stock records and standard reports, selection of items to be held in stock, inventory control models and reorder frequency, standard inventory calculations and advanced models of inventory management.
6	Storage & Distribution	Gain knowledge on WHO's Good Storage and Distribution Practices, warehouses processes, transportation systems, and techniques on maintaining a cold chain with a special focus on the design of country distribution systems, effectiveness of the system, and level of responsiveness.
7	Rational Use of Medicines	This module helps students understand the major types of irrational medicine use and their impact on public health. Make them aware of the different major strategies to improve rational medicine use and the need for multi-strategy approach.
8	PSM Support Functions & Systems	Become an expert in the fundamentals of Organisational Management and Project Management, discussing various facets of project management, as an interplay of project elements such as time, cost, scope and resources, applied to a public health context.
9	PSM Plan Assignment	In this assignment, students need to apply what they have learned in year 1 of the master's course. It is an opportunity to apply a real-world example that is directly relevant to them based on the topics assigned.

Sequence	Module Name	Overview
10	Effective Responses of The Public Health Procurement and Supply Chain to The COVID Pandemic and Future Proofing Supply Systems	This module will help you understand the major impacts that the Covid pandemic has produced in public health supply chains in low- and middle-income countries; the very real changes that it has forced on their operations; and the massive reforms and developments that need to take place if countries are to be much better prepared and responsive for future pandemic, disaster and emergency situations.
11	Emergency, Pandemic and Humanitarian Public Health Procurement and Supply Chain Management	This module assists countries in formulating and developing the PSM inputs and planning required to contribute to a national health commodity emergency and pandemic planning.
12	Procurement and Supply Chain Management for Medical Devices, Diagnostics and Equipments (MDDE)	This module informs participants on the special requirements of medical diagnostics and devices by comparing, and emphasizing the key differences between the requirements of the clinical diagnostics/laboratory supply chain and the pharmaceuticals and health commodities supply chain.
13	Introducing New Health Technologies into Public Health Supply Chains	This module provides a fundamental understanding to identify and address the specific factors that impede access and delivery, and ensure that appropriate systems are in place and functioning properly to assure the affordability, quality, safety and appropriateness of new health technologies.
14	Managing Product Quality Assurance in Public Sector Procurement and Supply Chains	The module is introduced and presented with the concept of understanding the management and budgeting of the QA process, and connects it with the necessary resource requirements--human, financial and capital (equipment). The module follows WHO guidelines for commodity QA activities and references all the prime WHO documents. These guidelines can be applied for QA policies of the Global Fund, World Bank, UN agencies, USAID, DfiD and other donors.
15	Risk Management in Public Health Procurement and Supply Chains	This module provides participants with an understanding of using a risk management approach, the categorization of the key risk factors and how they can be mitigated.
16	Financial Evaluation of Investments in Public Health Supply Chain	This module focuses on the significance of investment in public health supply chains and the evaluation of finances for its proper utilization. It emphasizes the application of practical thought processes to real life projects. This module is developed in partnership of Global Fund.
17	Leadership in Global Health	This module focuses on leadership, its traits, its fundamentals and the differences between administration, management and leadership in supply chain management. It guides you to identify your own leader profile, develop a personal action plan and understand the right way to manage change.
18	Master's Thesis	The final thesis provides an opportunity for professionals to the professionals for applying all the concepts learned over the past modules in a single project. It would be based on the problems identified in the professional's home country and would recommend practical solutions to address them.

# Master of Science in Global Health Procurement and Supply Chain Management (12-Month Programme)

The one-year Master of Science programme is offered to students who have completed the Post Graduate Diploma in Global Health Procurement and Supply Chain Management from Empower School of Health.

## Overview of Course Topics

Sequence	Module Name	Overview
1	Effective Responses of The Public Health Procurement and Supply Chain to The COVID Pandemic and Future Proofing Supply Systems	This module will help you understand the major impacts that the Covid pandemic has produced in public health supply chains in low- and middle-income countries; the very real changes that it has forced on their operations; and the massive reforms and developments that need to take place if countries are to be much better prepared and responsive for future pandemic, disaster and emergency situations.
2	Emergency, Pandemic and Humanitarian Public Health Procurement and Supply Chain Management	This module assists countries in formulating and developing the PSM inputs and planning required to contribute to a national health commodity emergency and pandemic planning.
3	Procurement and Supply Chain Management for Medical Devices, Diagnostics and Equipments (MDDE)	This module informs participants on the special requirements of medical diagnostics and devices by comparing and emphasizing the key differences between the requirements of the clinical diagnostics/laboratory supply chain and the pharmaceuticals and health commodities supply chain.
4	Introducing new health technologies into public health supply chains	This module provides a fundamental understanding to identify and address the specific factors that impede access and delivery, and ensure that appropriate systems are in place and functioning properly to assure the affordability, quality, safety and appropriateness of new health technologies.
5	Managing Product Quality Assurance in Public Sector Procurement and Supply Chains	The course is introduced and presented with the concept of understanding the management and budgeting of the QA process and connects it with the necessary resource requirements--human, financial and capital (equipment). The course follows WHO guidelines for commodity QA activities and references all the prime WHO documents. These guidelines can be applied for QA policies of the Global Fund, World Bank, UN agencies, USAID, DfiD and other donors.
6	Risk Management in Public Health Procurement and Supply Chains	This module provides participants with an understanding of using a risk management approach, the categorization of the key risk factors and how they can be mitigated.
7	Financial evaluation of investments in public health supply chain	This module focuses on the significance of investment in public health supply chains and the evaluation of finances for their proper utilization. It emphasizes the application of practical thought processes to real life projects. This module is developed in partnership of Global Fund.
8	Master's Thesis	The final thesis provides an opportunity for professionals to the professionals for applying all the concepts learned over the past modules in a single project. It would be based on the problems identified in the professional's home country and would recommend practical solutions to address them.

## Key Advisors and Faculty Members



### **Prof. Paul Lalvani**

Founder and Executive Director, Empower School of Health; Former Head of Global Fund's Department of Procurement & Supply Chain Management; Former Co-chair, Procurement & Supply Chain Management-Working Group, Roll Back Malaria Partnership, Geneva; Advisor to various UN agencies & MoH. His area of expertise includes public health, advocacy, business development, capacity building, strategic planning, policy development, national and international partnerships.

### **Mr. Alex Mejía**

Mr. Mejía is the Director of UNITAR's Division for People and Social Inclusion. His career spans two decades in private and public organizations, serving as the Counsellor at the Ecuadorian Embassy in Bogotá, Colombia, as the Vice Minister of Economy for the Republic of Ecuador, as the Alternate Governor to the International Monetary Fund, to the World Bank, and to the Inter-American Development Bank, and as a member of the Board of Directors of Ecuador's Central Bank.



### **Late Prof. Andy Barraclough**

Former director of Education and Capacity Building, Empower School of Health, Professor of Public Health Procurement & Supply Chain Management, GMS certified Global Fund PSM consultant. Over 30 years of experience working with major international funding institutions and bilateral donors in medical procurement and supply chain management in low- and middle-income countries.

### **Prof. Denis Broun, M.D.**

Chief Executive Officer, Centa Biotech SL, Spain, and Adjunct Faculty & Pharmaceutical and Supply Chain Expert, Empower School of Health, has more than 30 years of experience. He was the former Executive Director of UNITAID, former Regional Director of UNAIDS, and former Director for WHO.



### **Dr. Florence Duperval Guillaume, Ph.D.**

She is the former Minister of Health of Haiti (2011-2016) and an adjunct faculty at the Empower School of Health. She has 32 years of experience as a physician with outstanding contributions in public health for the past 28 years. She is a public health practitioner with extensive experience in service organization, health governance, leadership and management focusing on performance-based approach for which Haiti is recognized worldwide as one of the pioneers.

### **Director Frank Biayi (Alumni of Empower School of Health)**

Director of the National Drug Supply Program, Democratic Republic of Congo. He has more than 25 years of experience as Pharmaceutical Advisor in cabinets of Ministers. He has been Honorary Director of the Traditional Medicine Program, Honorary Director of the Directorate of Pharmacy and Medicines, Honorary Deputy Director of the Essential Drugs Program, National and International Consultant of WHO, UNFPA, World Bank, Enable, Save the Children.



## Key Advisors and Faculty Members

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### **Dr. Santiago Kraiselburd, Ph.D.**

He is the Director of Clinical Research Entrepreneurship, TecSalud del Tecnológico de Monterrey, Mexico and Adjunct Faculty, Empower School of Health. He holds a Ph.D. in Supply Chain Management from Harvard Business School. He is also an Associate Professor and the Research Director at INCAE Business School. He is also an Adjunct Professor at the Universidad Torcuato Di Tella (Argentina), and teaches at the Zaragoza Logistics Center (Spain), both in the Massachusetts Institute of Technology (MIT) International Logistics Program and at the Spanish Master's program.



### **Dr. Bonface Fundafunda, Ph.D.**

Dr. Fundafunda is the Co-CEO and Government Engagement Director at Africa Resource Centre, Africa and an adjunct faculty at the Empower School of Health. He is an experienced executive, with extensive public sector experience in health product supply chain policies, strategies, planning, financing, operations and management. He is a trusted advisor for international donor agencies and governments.

### **Prof. Henri Fourcault**

Henri Fourcault is the Director of Empower's Center for Leadership Development Geneva, Empower School of Health. He is a former Senior Management Advisor of the Executive Secretary of UNECA in Addis Ababa, Senior Management Officer at the Office of Internal Oversight Services of UNHQ in New York, and Change Manager to the UN High Commissioner for Human Rights in Geneva.



### **Prof. Bernadette Nirmal Kumar**

Senior Advisor of Empower School of Health, PhD, Co- Chair Lancet Migration, and Director of the Norwegian National Center for Migration and Minority Health; Associate Professor - Global Health, Institute for Health and Society, University of Oslo; Former Senior Advisor to the Royal Norwegian Embassy for the Prime Minister's - Norway India Partnership.

### **Mr. Nicolas Tavagnutti**

A globally recognized expert in Pharmaceutical Supply Management (PSM), currently based in Thailand. He also serves as an Adjunct Faculty member at the Empower School of Health, Geneva, where he contributes his extensive industry knowledge to advancing global health education.



## Alumni Speak



I thank you for this course and giving this opportunity for improving my knowledge; It has been an honor to be a part of Empower School of Health.

**Florence D. Guillaume,**  
**Country Director USAID GHSC-PSM (Haiti)**



This course has made me gain a deeper understanding of the real issues that affect procurement and supply chain. This is a must do course for someone who wants to pursue a career in PSCM!

**David Munemo,**  
**Ministry of Health & Child Care (Zimbabwe)**



The necessary skills acquired at Empower School of Health will go a long way in helping my department & country as a whole.

**Iakuna Moide,**  
**CHAI (Papua New Guinea)**



I would like to start by thanking you Empower for being supportive along the way and always encouraging. I am very grateful to my organization Chemonics for this opportunity to me and colleagues.

**Ruth Kuria, Office Manager USAID GHSC-PSM, Chemonics International Inc (Kenya)**



The supply chain course is a new frontier in my career. This course was incredible in terms of content and design. Especially the final case study was a new experience for me. Thank you Empower team for your kind support.

**David Munemo,**  
**Ministry of Health & Child Care (Zimbabwe)**



I am thankful to Empower for giving me an opportunity to participate in the course and I feel very lucky to be taught by experienced trainers.

**Viengsavanh Phanmanivong,**  
**GFATM PR office Ministry of Health (Lao PDR)**



I am privileged to be with the team who has graduated and appreciate the way the course was designed. We really enjoyed the course, enjoyed doing practices, and am also grateful to my organization Chemonics- we will use this knowledge to improve the supply chain management in our area. Thank you.

**Juvenal Majoro,**  
**Senior Advisor for Health Systems Strengthening (Rwanda)**

# About us



Empower is a global health academic research and capacity-building institute focusing on empowering individuals and communities. Empower works with UN agencies, MoH, public health organizations, international NGOs and donor agencies across Africa, Asia, CIS and the Pacific on various global health projects. Empower has experience in more than 100 countries, 250+ organizations, with a diverse team of health professionals, designers and technology experts. Empower has a global presence and believes in creating a sustainable impact.

The United Nations Institute for Training and Research (UNITAR) is an autonomous body within the United Nations that was established in 1965 pursuant to a UN General Assembly resolution, with the purpose of enhancing the effectiveness of the UN through appropriate training and research.



Empower is accredited by Accreditation Service for International Schools, Colleges and Universities (ASIC). The Institution has earned Premier status with ASIC for its commendable areas of operation. ASIC is recognised by UKVI in UK, is a member of the Council for Higher Education Accreditation (CHEA) International Quality Group (CIQG) in USA and is listed in their International Directory, is a member of the BQF (British Quality Foundation) and are institutional members of EDEN (European Distance and E-Learning Network).

ACCREDITED



Institutional Certification

Empower School of Health Receives the Prestigious FIBAA Digital Seal for Excellence in Digital Education! This remarkable recognition is founded on the European Standards and Guidelines (ESG) and the insightful "Considerations for quality assurance of e-learning provision" from the European Association for Quality Assurance (ENQA) in Higher Education's "Occasional Paper 26." With 25+ years of expertise, FIBAA is recognised by Germany's Accreditation Council and Switzerland's HEDA (The Higher Education Funding and Coordination Act), the European Quality Assurance Register (EQAR) and the European Association for Quality Assurance in Higher Education (ENQA).

# Partners, Clients and Funders

Government Bodies	UN Agencies	Donor Agencies	Academia	NGOs and Implementing Organizations	Professional Associations

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