

Ian Joseph E. Marcelino

Associate Operations Manager

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Results-oriented Chemical Engineer with proven expertise in data analytics, forecasting, and operational optimization, particularly in potable water treatment systems. Experienced in turning complex datasets into actionable insights that drive strategic decisions and performance improvements. Proficient in tools like Microsoft Excel, and Power BI with hands-on experience in building dashboards, forecasting trends, and streamlining multi-departmental operations.

QUALIFICATIONS

1. Maintains water quality Power BI dashboard for monitoring of real-time water quality data across 8 treatment facilities, and 23 pumping station and reservoir facilities.
2. Created a centralized database for monitoring, updating, and storing research outputs for the associate operations manager team.
3. Forecasts source water quality, chemical consumption, and power efficiency of the facility using current and historical data.
4. Develops and documents standard operating procedures involving water treatment processes and water quality testing.
5. Possesses good interpersonal and communication skills.
6. Partnered with various departments to align project goals and ensure seamless execution

EDUCATION – CERTIFICATIONS, LICENSES, AND PROFESSIONAL DEVELOPMENT

Has credentials in the Google Data Analytics Professional Certificate, covering SQL, data visualization, and analytical thinking

- Google: Foundations: Data, Data Everywhere, Mar 2025
- Google: Ask Questions to Make Data-Driven Decisions, Apr 2025
- Google: Prepare Data for Exploration, Apr 2025
- Google: Process Data from Dirty to Clean, May 2025
- Google: Analyze Data to Answer Questions, May 2025
- Bachelor of Science Major in Chemical Engineering – University of Santo Tomas, 2019
- Professional Chemical Engineer: PRC ID 0034595

EMPLOYMENT HISTORY AND DESCRIPTION

- **Water Treatment Associate Operations Manager** – Water Supply Department, Operations
February 2022 – present
Manila Water Company Incorporated, Quezon City, Philippines
Job Description:
 - Develops and maintains centralized data system for tracking KPIs and operational expenses, enabling weekly reporting and trend analysis.
 - Reviews, evaluates, and recommends existing and new treatment systems designs and new equipment for new system projects, updated regulation on water quality, and treatment efficiency improvements based on historical and current data.
 - Analyzes and reviews causes of production and treated water quality deviation, process upset and any malfunctions and proposes adjustment to various treatment processes or components.
 - Provides technical and data-driven support for treatment process operations.

- **Water Treatment Operations Engineer** – Water Supply Department, Operations

April 2021 – February 2022

Manila Water Company Incorporated, Quezon City, Philippines

Job Description:

- Supervises per shift operations by controlling the treatment process via SCADA and directing real-time process control in on-ground teams
- Validate risks reported pertaining to production, treated water quality, process upset, equipment malfunction or abnormality and perform/instruct preventive and corrective action.

- **Quality Control and Assurance Analyst**

February 2020 – July 2020

Republic Biscuit Corporation, Quezon City, Philippines

Job Description:

- Conducted quality assurance testing on production lines and analyzed compliance metrics

SKILLS

Data Tools & Software: Power BI, Microsoft Excel, SQL (basic), Microsoft Word

Data Analysis & Forecasting: Trend analysis, time-series forecasting, dashboard creation

Process & Operations: Water quality optimization, SCADA, SOP documentation

Soft Skills: Communication, cross-functional collaboration, technical reporting