

Guidance for Professional Development in Drinking Water and Wastewater Industry

Guidance for Professional Development in Drinking Water and Wastewater Industry recognises the water practitioner's journey from the novice student phase all the way to an established expert position, both on technological and professional fronts. This book reviews various career phases and helps realise purpose, motivation, responsibilities and milestones for each professional stage. Since professional journeys are significantly different for individuals and designations, titles vary widely from organization to organization, general terminologies are used for describing career phases, mainly Student Phase, Entry-Level Professional, Mid-Level Professional and Established Practitioner.

This guide helps the reader to understand a step-by-step professional development process in the industry and at the same time receive key inputs to minimise or avoid common mistakes related to the drinking water or wastewater occupations.

The book provides an overview of common educational options available for students including short-term courses, diploma and certificates, associate degrees, bachelor degrees, masters degrees, doctorate degrees, post-doctoral fellowship and continued education. With respect to job profiles, the guide covers different professional avenues such as consultant, engineer, designer, researcher, academic faculty member, sales and marketing, permitting authority staff, laboratory professionals, system operators, construction management staff, manufacturing and industry staff. In terms of technological knowledge, both drinking water and wastewater infrastructure systems are reviewed in the book. Discussions on drinking water systems mainly include intake structures, treatment systems, distributions network components whereas wastewater systems include collection and conveyance systems, treatment options and sludge management systems.

Guidance for Professional Development in Drinking Water and Wastewater Industry is useful for every professional in the industry and particularly prospective students. It can be used by mentors and established practitioners as a guidance tool for training newcomers.

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