

Syllabus – Financial Qbits – QML Version

Chapter I. The Business Scenario

Learn a new visual map that shortcuts the time and the effort to understand *financial accounting*. Training is done through four animated video-lectures. These are reinforced with four self-grading quizzes.

a. The 4 Main Players

This part shows how just four (4) fundamental players, namely: *sales, expenses, assets* and *funds* set the stage where all financial transactions in a business take place. We will later learn why the transactions that link the players are called *double-entries*.

b. The Derived Players

A detail of the *players, or accounts* that lie beneath the four main players. For instance, beneath *assets*, we have *current assets, fixed assets* and *other assets*. This part was designed to clarify the meaning and structure behind the *chart of accounts*. The *chart of accounts* is a hierarchical catalog that lists the accounts that make up the financial statements of a business.

c. The 12 Double-entries that Link the Stage

Explains what *double-entries* are, how they work and why they come from just 12 basic possibilities. Understanding these 12 *double-entries* will demystify the *debts and credits* ordeal once and for all.

Chapter II. Building and Evaluating Financial Statements

By watching one video lecture and completing an interactive case study, you will learn how to build financial statements from scratch, one *building block, or one double-entry* at a time. Once you build the financial statements, you will perform basic financial analysis through *return on investment (ROI)* and *current ratio (CR)*, to help you evaluate the position of a business. This chapter will help you understand the meaning behind financial statements, which is useful for making savvy business decisions.

Final Exam

A self-grading final exam is administered. Grades 80% and higher will obtain a certificate of successful completion. Grades 90% and higher may be eligible to become certified Financial Qbits facilitators.

Chapter III. Using Financial Qbits QML Postulates for QML Literacy

Here, you will study the QML postulates of: Pixelation/discreteness, emergence, superposition, time-reversibility, entanglement, operators, meta-learning, concept encoding at different layers of abstraction and information reuse (AKA: information recycling). You will then reinforce what you learned with a self-grading quiz that will test your knowledge of these exotic QML concepts. This chapter will give you a basic understanding of the theoretical framework behind quantum computing and deep learning.