Course Roadmap of Video Courses for Students of Business Architecture and Technology Architecture

Video Courses on Business Architecture, Technology Architecture
Plus Three Certification Courses

by Clive Finkelstein
Table of Contents

<table>
<thead>
<tr>
<th>Contents</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Roadmap of Video Courses for Students of Business Architecture</td>
<td>1</td>
</tr>
<tr>
<td>and Technology Architecture ..................................................................</td>
<td></td>
</tr>
<tr>
<td>The Rapid Enterprise Architecture Delivery Course Roadmap .......... Error! Bookmark not defined.</td>
<td>1</td>
</tr>
<tr>
<td>Colour-Coding in Course Roadmap ..........................................................</td>
<td>1</td>
</tr>
<tr>
<td>1. RSD-BT: Rapid Systems Development for Business Transformation ...........</td>
<td>2</td>
</tr>
<tr>
<td>2. Module 1: Enterprise Architecture for Managers and IT ......................</td>
<td>2</td>
</tr>
<tr>
<td>3. Rapid Delivery Methods for Enterprise Architecture ...............................</td>
<td>2</td>
</tr>
<tr>
<td>4. Rapid Delivery Technologies for Enterprise Architecture .......................</td>
<td>3</td>
</tr>
<tr>
<td>5. CBDM: Certified Business Data Modeller ...............................................</td>
<td>4</td>
</tr>
<tr>
<td>6. CSBP: Certified Strategic Business Planner ..........................................</td>
<td>4</td>
</tr>
<tr>
<td>7. CSMF: Certified Strategic Modelling Facilitator ................................</td>
<td>4</td>
</tr>
<tr>
<td>8. Practical Experience: Client Business Planning Workshops, Client</td>
<td>4</td>
</tr>
<tr>
<td>Enterprise Architecture Workshops and Projects .....................................</td>
<td></td>
</tr>
<tr>
<td>Reference Textbook .................................................................................</td>
<td>5</td>
</tr>
<tr>
<td>Links to Relevant Courses .......................................................................</td>
<td>5</td>
</tr>
<tr>
<td>Business Architecture Courses ONLY ......................................................</td>
<td>5</td>
</tr>
<tr>
<td>Business Architecture Certification (CSBP) and (CSMF) ................................</td>
<td>6</td>
</tr>
<tr>
<td>Technology Architecture Courses ONLY ..................................................</td>
<td>6</td>
</tr>
<tr>
<td>Technology Architecture Certification (CBDM) ...........................................</td>
<td>6</td>
</tr>
<tr>
<td>Both Business Architecture Certification and Technology Architecture</td>
<td>6</td>
</tr>
<tr>
<td>Certification (CSBP), (CSMF) and (CBDM) ....................................................</td>
<td></td>
</tr>
</tbody>
</table>
Course Roadmap of Video Courses for Students of Business Architecture and Technology Architecture

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The left-hand side of the Course Roadmap in Figure 1 below shows the courses that are available for BUSINESS ARCHITECTURE. These are for an audience of Chief Executive Officers, Chief Operating Officers, Chief Financial Officers, Senior-level and Middle-level Business Managers and Business Experts.

The right-hand side of the Course Roadmap shows the courses that are available for TECHNOLOGY ARCHITECTURE. These are for an audience for Chief Information Officers, Chief Technology Officers, Chief Data Officers, IT Managers, Project Managers, Data Modelers, EA Consultants, Systems Analysts and Developers.

Figure 1: Course Roadmap for Business Planning and Enterprise Architecture Training (Business Architecture and Technology Architecture)

Colour-Coding in Course Roadmap

The colour-coding used in the Course Roadmap in Figure 1 is as follows:

- Orange represents a Suggested Starting Point Course
- Green represents the Rapid Delivery Workshop Module Courses
- Blue represents the Certification Courses
- Yellow represents Client Business Planning Workshops and Projects and also Client Enterprise Architecture Workshops and Projects

You can click on any Link at the end of this Post to be taken to the Udemy online learning at www.udemy.com, where you can read more about the relevant course: The Course Overview and Course Goals; as well as the complete Curriculum of Section and Lecture Descriptions.

With this information, you can then decide whether the relevant course meets your needs. You can decide to enroll by clicking the “Take this Course” button.
There is a 30-day money back guarantee if you are not completely satisfied. You can use each course that you enroll in for a life-time with no additional charges.

The numbers in each box of Figure 1 are keyed to the numbered headings below.

1. **RSD-BT: Rapid Systems Development for Business Transformation**

A suggested starting point for courses (in Orange in Figure 1) in this roadmap is shown as the RSD-BT: Rapid Systems Development for Business Transformation introductory course. This starting-point course has been extracted as a 1.5-hour subset course, from key lectures in Module 1: Enterprise Architecture for Managers and IT (see below).

It addresses the rapid business change environment that most organisations find themselves in today. Instead of organisations changing every five years in the 60’s and 70’s based on the 5-year strategic plan – today, organisations review their strategic business plan typically every six months, and change direction accordingly.

The problem is that our traditional systems development methods (based on manual coding) are expensive, error-prone and can take months or years to change.

New development methods are needed that can change systems and databases in weeks, days, or even hours This introductory course discusses the use of point-and-click methods, such as Business Process Modelling Notation (BTMN) with automatic generation of XML-based executable code typically in Business Process Execution Language (BPEL).

The course also discusses the historical reasons for the existence of redundant data in today’s database silos and the associated problems and the cost of redundant data maintenance processes when that data changes. This typically costs large organisations hundreds of millions of dollars in development, and In annual operating costs. The courses in this roadmap resolve these problems

2. **Module 1: Enterprise Architecture for Managers and IT**

This is the first course in the Rapid Delivery Workshop for Enterprise Architecture course series and is the prerequisite for Module 2: Rapid Delivery Methods for Enterprise Architecture and for Module 3: Rapid Delivery Technologies for Enterprise Architecture and for all of the Certification courses.

As these courses teach the business-driven methods of Enterprise Engineering, they also teach methods for Business Architecture and for Technology Architecture. Module 1 is the first Business Architecture course. It teaches the Business Architecture methods of Enterprise Engineering, with Exercises, Problems and Sample Solutions.

Section 2 covers the rapid strategic business planning method of Strategy Analysis that can be used to conduct internal Business Planning workshops to develop Tactical and Operational Business Plans for Business Units using the Strategic Business Plan.

In Section 3, a Facilitated Strategic Modeling session is conducted using the refined strategic plans from Section 2 as a catalyst with senior management to develop an initial strategic model (as a strategic data map) that is seen by business managers as a “picture of the business”. Priority business processes are identified by senior management for early delivery. The analysis of the initial strategic model is demonstrated.

Section 4 then discusses four real-world projects that very successfully used these rapid EA delivery methods. This course comprises 4 Sections and 40 Lectures, over 11 hours.

3. **Rapid Delivery Methods for Enterprise Architecture**

This is the main Business Architecture course. It trains business and IT students in Business-driven Data Modelling (Section 2) and Business Normalization (Section 3), so they can draw on their respective expertise (business and
technology) and work together in an active design partnership.

In Section 4, the initial strategic map developed in Module 1 is expanded using other business planning statements as a catalyst. The expanded strategic map is first used by business managers to identify other priority business activities or business processes to be delivered first into production as databases and systems in 3-month increments of increasing functionality.

In Section 5, the expanded strategic map is used in five case study problems that show how to derive from any data map, - manually and rapidly by visual inspection:

- The project phase number of every entity in a data map
- Project plans of priority processes for early delivery into production
- Early-Milestone sub-projects in Complex data maps for early delivery into production ahead of other processes that can wait until later
- An Enterprise Architecture Portfolio Plan (EAPP) to project-manage the completion of each sub-project, based on Tactical Business Plans and Operational Business Plans and source documents
- Activity Modeling together with Activity Based Costing for cost justification of new o-Be) activities or processes or technologies
- Converting Activity Models to Workflow Models and Process Models for later implementation with BPMN
- Project Maps to manage the rapid delivery into production of databases and systems in 3-month increments of increasing functionality

*These manual visual inspection methods have not been known or used previously by technical data modelers, but were developed for Enterprise Engineering and have been successfully used for the rapid delivery of EA projects for the last 20 years.*

This course comprises 10 sections and 58 lectures over 16.5 hours.

## 4. Rapid Delivery Technologies for Enterprise Architecture

Module 3 is the first Technology Architecture course. It discusses the technologies that are available today for rapid delivery of the databases and systems defined using the Business Architecture methods covered in Module 2. Module 3 starts by examining the Business-to-Business (B2B) problems of terminology used by different enterprises in communicating across the Internet and their resolution through Data Transformation by using Extensible Markup Language (XML) and XML Transformation (XMLT) products.

It covers XML fully, with its definition in Document Type Declarations (DTDs). It uses Extensible Style Language (XSL) examples to demonstrate how XML can be used to define any XML-based executable language.

This concept is used later, by Business Process Execution Language (BPEL) that is generated automatically from BPMN process model or workflow model diagrams and is executable.

Enterprise Application Integration (EAI) concepts are discussed, with many product examples. Web Services are covered, which are invoked across the Internet by XML messages.

The concepts of ebXML are discussed. This is used to replace Electronic Data Interchange (EDI) messages by XML messages.

Service Oriented Architecture (SOA) is covered, together with other XML-based executable Languages such as BPEL and BPML (Business Process Modeling Language) that can be generated from BPMN diagrams.

Finally, BPMN concepts are covered, together with a BPMN Tutorial for point-and-click definition of process logic to be generated as XML-based executable BPEL code. Module 3 comprises 7 sections and 35 lectures, over 9 hours.
5. **CBDM: Certified Business Data Modeller**

The CBDM is the first Technology Architecture Certification Course. The CBDM has been in use since 1998 and has trained hundreds of data modelers throughout the world based on an online self-study course developed by Clive Finkelstein that used PowerPoint Instructor Notes.

This is the first time the CBDM has been available as a video course presented personally by Clive Finkelstein.

It extracts **Section 2 of Module 2** which covers Business-driven Data Modeling Concepts and **Section 3 of Module 2** which covers Business Normalization Concepts, both for your review before completing **Section 3** of the CBDM, which is the CBDM Exam.

In **Section 3**, you are asked to fully complete the **Data Modelling Case Study Workshop** for an Automobile company that is also used as the workshop in the CSMF course below).

Additionally, the CBDM course includes a free copy of the Student Edition of Visible Advantage. This is a modelling tool that analyses the Automobile Case Study data map automatically, where you also do this manually in the CSMF course.

6. **CSBP: Certified Strategic Business Planner**

Section 2 of Module 1 is the first of the Business Architecture Certification courses. It covers the rapid strategic business planning method of Strategy Analysis. Internal Business Planning Workshops can be conducted using this business planning method to refine an existing Strategic Business Plan, or to develop a new Strategic Business Plan where one does not yet exist. The refined Strategic Business Plan is then used to develop Tactical Business Plans and Operational Business Plans for key Business Units.

7. **CSMF: Certified Strategic Modelling Facilitator**

The CSMF master course is the second of the Business Architecture Certification courses.

Your understanding of the methods used in the earlier courses is assessed by developing a strategic data map for the same Automobile company as used in the CBDM course **Data Modelling Case Study Workshop** and manually deriving an EAPP and associated documentation.

It includes the Strategic Modelling Facilitated Example from Section 3 of Module 1. **Section 4 of Module 2** is also included. Both Sections are for your review to show how to:

- Identify business activities and business processes in the strategic data map
- Analyze the strategic map manually - using rapid, simple and easy visual inspection methods;
- Determine the project phase number of each entity in the Automobile data map: from the **Data Modeling Case Study Workshop** (used also in the CBDM course);
- Derive project plans from the data map of the Automobile Company;
- Derive an Enterprise Architecture Portfolio Plan (EAPP); for project-management of each EA sub-project
- Derive a Project Map for early milestone delivery of priority sub-projects from large complex project data maps.

8. **Practical Experience: Client Business Planning Workshops, Client Enterprise Architecture Workshops and Projects**

After completing the above courses, a student must also acquire Practical Experience in both Business Planning and in Enterprise Architecture. To achieve this, many Universities establish a collaborative partnership through their Business School and their Computer Science Departments.
Universities and Other Educational Institutions are considering licensing the PowerPoint Course Materials so that they can offer these same courses: presented live in a Lecture Theatre or a classroom environment; or as part of their own video online learning capability as one of their own course offerings through their Business School and Computer Science Departments.

These current video courses can be used immediately on a complimentary basis if the University has entered into a University License Agreement to train their own Faculty Lecturers. The University can then use the PowerPoint files, together with their comprehensive Instructor Notes, so these Lecturers can present the lectures live or online.

Similarly, if students – after Graduation – want to set up their own EA Training and EA Consulting Company, they can choose to License the PowerPoint course materials with no upfront charge, just a quarterly License Fee of 10% of the total quarterly profits earned by the use of the course materials for Video Courses, Public Courses, In-House Courses, or EA Consulting – as described in the Licensee Guide and the Licensee Business Plan Spreadsheet. Their company retains 90% of the total quarterly profits.

This eliminates much of the risk of starting up a new Business – many of which fail in the first five years while trying to develop products, services, or Intellectual Property (IP) (i.e. the PowerPoint course materials in this case) that their clients will pay for.

Many Universities have also established a Consulting company to provide training and consulting services for clients. These are attractive for clients as they are generally less expensive than with Commercial Consulting Companies, who have to recover through their consulting fees the salaries of their employed consultants.

In contrast, the students’ salaries do not have to be paid. Indeed, they are paying to be taught. Yet the students gain full experience as they work as unpaid interns, with Faculty Lecturers mentoring them through their internship.

This mentoring also enables the Faculty Lecturers to assess the competency of each student while also providing advice and mentoring guidance.

**Reference Textbook**

One Reference Textbook is used for all of the video courses in the Course Roadmap. The Reference Textbook is an eBook in PDF of 574 pages. It includes all Course Exercises and Problems, together with Sample Solutions and Technology Product Descriptions. It has a Table of Contents with navigable links, as well as navigable links from the Contents sidebar of your PDF Reader. It is formatted to be printed single-sided or double-sided, and in colour or in black-and-white. The eBook is titled:


The Reference Textbook can be downloaded from the Link on the other side of each Separator page that starts each Section. It is available for $US30.

**Links to Relevant Courses**

Use the following direct links to the relevant courses and the sequence in which you should take those courses:

**Business Architecture Courses ONLY**

If your focus is only to learn Business Architecture, you should click on each link in the following sequence:

- 1) RSD-BT: Rapid Systems Development for Business Transformation
- 2) Module 1 : Enterprise Architecture for Managers and IT
• 3) Module 2 : Rapid Delivery Methods for Enterprise Architecture

**Business Architecture Certification (CSBP) and (CSMF)**

If your focus is to learn Business Architecture and also to qualify as a CSBP and CSMF, you should click on each link in the following sequence:

• 1) RSD-BT: Rapid Systems Development for Business Transformation
• 2) Module 1 : Enterprise Architecture for Managers and IT
• 3) Module 2 : Rapid Delivery Methods for Enterprise Architecture
• 6) CSBP Certified Strategic Business Planner
• 7) Certified Strategic Modelling Facilitator

**Technology Architecture Courses ONLY**

If your focus is only to learn Technology Architecture, you should click on each link in the following sequence:

• 1) RSD-BT: Rapid Systems Development for Business Transformation
• 2) Module 1 : Enterprise Architecture for Managers and IT
• 4) Module 3 : Rapid Delivery Technologies for Enterprise Architecture

**Technology Architecture Certification (CBDM)**

If your focus is to learn Technology Architecture and also to qualify as a CBDM, you should click on each link below, in the following sequence:

• 1) RSD-BT: Rapid Systems Development for Business Transformation
• 2) Module 1 : Enterprise Architecture for Managers and IT
• 4) Module 3 : Rapid Delivery Technologies for Enterprise Architecture
• 5) CBDM: Certified Business Data Modeller

**Both Business Architecture Certification and Technology Architecture Certification (CSBP), (CSMF) and (CBDM)**

If your focus is to learn both Business Architecture and Technology Architecture, and also to qualify as a CBDM, CSBP and also CSMF, you should click on every link below, in the following sequence:

• 1) RSD-BT: Rapid Systems Development for Business Transformation
• 2) Module 1 : Enterprise Architecture for Managers and IT
• 3) Module 2 : Rapid Delivery Methods for Enterprise Architecture
• 4) Module 3 : Rapid Delivery Technologies for Enterprise Architecture
• 5) CBDM: Certified Business Data Modeller
• 6) CSBP Certified Strategic Business Planner
• 7) Certified Strategic Modelling Facilitator

Clive Finkelstein