Effective BI Requirements Gathering and Solution Design Training Course

19 - 23 Oct 2026

Amsterdam

5900 € (Per Person)

Ref: #BUI6457_81703

Course Introduction / Overview:

This comprehensive training course is designed to equip professionals with the critical skills needed to bridge the gap between business needs and technical implementation in Business Intelligence projects. The success of any BI initiative hinges on the ability to accurately gather, analyze, and translate business requirements into a robust, scalable, and effective solution design. This program delves deep into the BI project lifecycle, from initial stakeholder engagement to final solution validation. Drawing on foundational principles articulated by thought leaders like Ralph Kimball in his seminal work, "The Data Warehouse Toolkit," participants will learn a structured approach to requirements engineering and solution architecture. At BIG BEN Training Center, we provide a practical, hands-on learning experience that moves beyond theoretical concepts. You will master techniques for stakeholder interviews, workshop facilitation, and creating detailed documentation that serves as the blueprint for development. This course ensures you can design BI solutions that not only meet current demands but are also adaptable for future data-driven decision-making, ultimately delivering tangible business value and a significant return on investment.

Target Audience / This training course is suitable for:

- Business Analysts.
- BI Developers and Consultants.
- Data Architects and Data Modelers.
- IT Project Managers.
- Data Analysts.
- Systems Analysts.
- Professionals aspiring to a career in Business Intelligence.
- Managers overseeing data and analytics departments.

Target Sectors and Industries:

- Financial Services and Banking.
- Healthcare and Pharmaceuticals.
- Retail and E-commerce.
- Telecommunications.
- Manufacturing and Supply Chain.
- Technology and Software.
- Government Agencies and Public Sector Organizations.
- Consulting Services.

Target Organizations Departments:

- Information Technology (IT).
- Finance and Accounting.
- Sales and Marketing.
- Operations and Logistics.
- Human Resources.
- Strategic Planning.
- Customer Service.
- Product Development.

Course Offerings:

By the end of this course, the participants will have able to:

- Master the complete BI requirements gathering process from initiation to sign-off.
- Conduct effective stakeholder interviews and workshops to elicit clear and concise requirements.
- Differentiate between business, functional, and non-functional requirements in a BI context.
- Create comprehensive Business Requirements Documents (BRD) and technical specifications.
- Design scalable BI solution architectures, including data models and ETL processes.
- Apply data modeling techniques for building effective data warehouses and data marts.
- Translate business KPIs into technical metrics for dashboards and reports.
- Develop effective data visualization and dashboard design prototypes.
- Plan and execute User Acceptance Testing (UAT) for BI solutions.
- Establish a framework for data governance and quality within BI projects.
- Develop a strategic BI roadmap aligned with organizational goals.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, engaging, and practical, ensuring that participants can immediately apply their learning in a real-world context. We believe in a blended learning approach that combines expert-led instruction with hands-on application. The course is structured around a series of modules that include interactive presentations, detailed case studies of successful BI implementations, and collaborative group discussions to explore complex challenges. A significant portion of the training is dedicated to practical workshops and simulation exercises where participants will work in teams to gather requirements for a sample business case, design a solution architecture, and create a prototype dashboard. This experiential learning is reinforced by continuous feedback from the instructor and peer reviews. We foster an environment of active participation, encouraging questions and the sharing of professional experiences to enrich the learning for all attendees. Our goal is to move beyond theory and equip participants with the tangible skills and confidence needed to lead BI projects successfully.

Course Agenda (Course Units):

Unit One Foundations of BI Requirements Engineering

- Introduction to Business Intelligence and Analytics.
- The BI Project Lifecycle and Key Stages.
- The Critical Role of Requirements Gathering in BI Success.
- Identifying and Analyzing BI Stakeholders.
- Understanding Business Drivers and Strategic Goals.
- Differentiating Between Business, Functional, and Non-Functional Requirements.
- Common Pitfalls in BI Requirements Gathering and How to Avoid Them.

Unit Two Elicitation, Analysis, and Documentation

- Techniques for Eliciting Requirements: Interviews, Workshops, and JAD Sessions.
- Facilitating Effective Requirements Gathering Workshops.
- Documenting Business Requirements: Creating a Business Requirements Document (BRD).
- Developing User Stories and Use Cases for Agile BI.
- Requirement Analysis and Prioritization Techniques (MoSCoW).
- Managing Scope Creep and Change Control Processes.
- Creating a Requirements Traceability Matrix.

Unit Three Designing the BI Solution Architecture

- Translating Business Requirements into Technical Specifications.
- Introduction to Data Warehousing Concepts and Architecture.
- Data Modeling Fundamentals: Star Schema and Snowflake Schema.
- Designing the ETL (Extract, Transform, Load) Process.
- Selecting the Right BI Tools and Technology Stack.
- Designing for Scalability, Performance, and Security.
- Data Governance and Data Quality Considerations in Design.

Unit Four Developing and Prototyping BI Solutions

- Defining Key Performance Indicators (KPIs) and Metrics.
- Best Practices in Data Visualization and Dashboard Design.
- Wireframing and Prototyping Reports and Dashboards.
- Storytelling with Data to Drive Actionable Insights.
- Designing Interactive and User-Friendly BI Interfaces.
- Incorporating Self-Service BI Capabilities into the Solution.
- Gathering Feedback and Iterating on Prototypes.

Unit Five Implementation, Validation, and Strategic Planning

- Planning and Managing User Acceptance Testing (UAT).
- Developing Test Cases and Scenarios for BI Solutions.
- Deployment Strategies for BI Projects.
- Post-Implementation Support and User Training.
- Measuring the ROI and Business Value of a BI Solution.
- Developing a Long-Term BI Roadmap.
- The Future of BI: Trends in AI, Machine Learning, and Big Data.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

How can an organization effectively balance the need for standardized, governed BI solutions with the increasing demand for agile, self-service analytics from business users?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself by providing a holistic, end-to-end perspective on the Business Intelligence lifecycle, uniquely integrating the disciplines of business analysis and technical solution design. Unlike programs that focus narrowly on specific software tools or theoretical concepts, this training emphasizes the critical thinking and practical skills required to translate complex business problems into effective, data-driven solutions. We focus on the 'why' behind the 'what,' ensuring participants understand the strategic context of BI and can align their projects with organizational goals. The curriculum is built around real-world case studies and hands-on workshops, allowing participants to practice requirements elicitation, design data models, and prototype dashboards in a simulated environment. This practical application solidifies learning and builds confidence. Furthermore, the course content is forward-looking, addressing not only traditional BI architecture but also modern challenges like data governance, self-service analytics, and the integration of AI, ensuring that the skills acquired are both relevant today and valuable for the future.