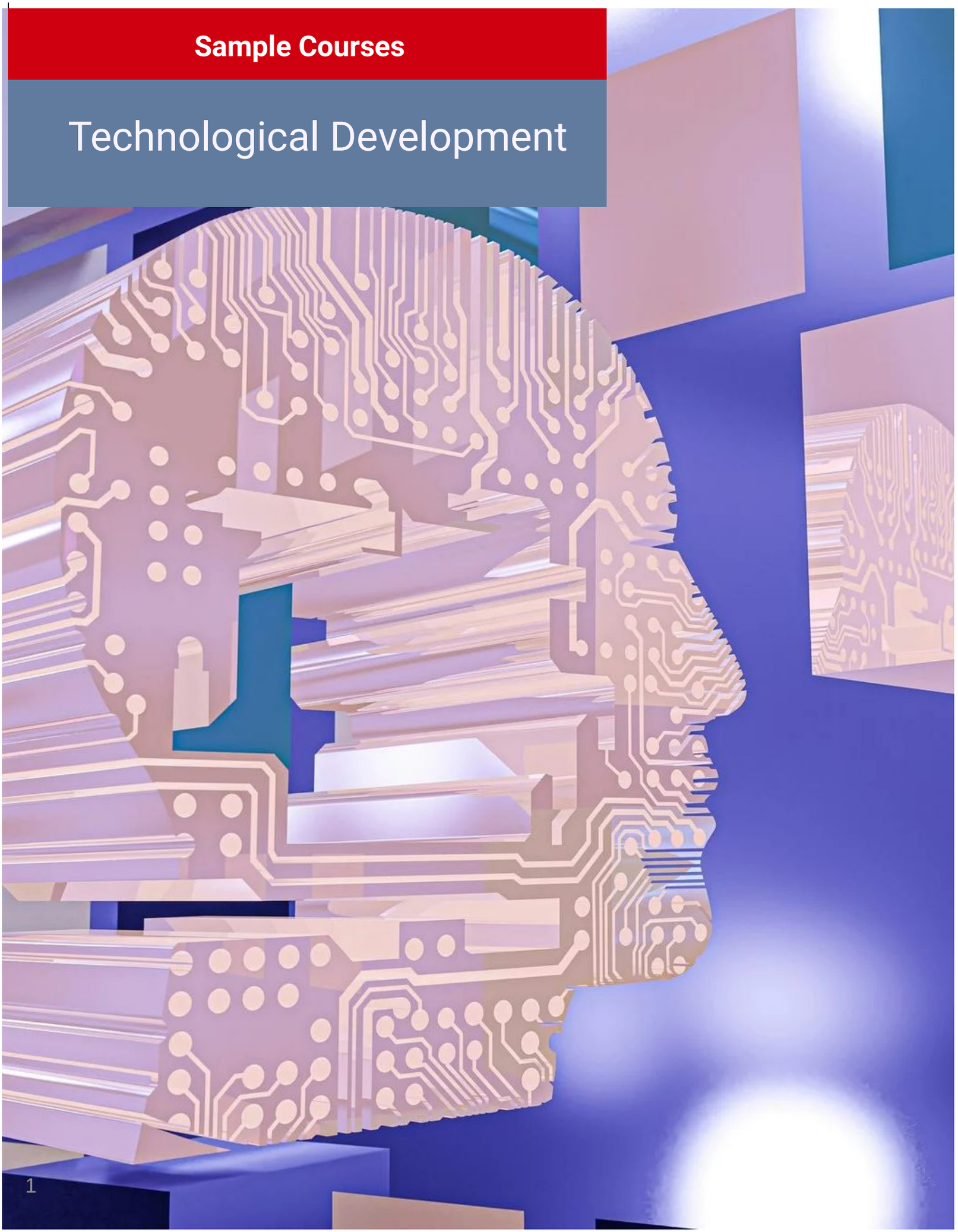
Sample Courses

Technological Development



SynerGrowth Consulting
PARTNERING FOR TRANSFORMATIVE GROWTH

Fundamentals of Data Analytics using Power BI

2 Days

COURSE SYNOPSIS

This introductory course on Data Analytics using Power BI is designed for individuals looking to understand and apply foundational data analytics principles using one of the most popular business intelligence tools in the industry. Power BI enables professionals to connect to multiple data sources, transform raw data into insights, and create compelling, interactive reports and dashboards. This course will guide students through the essentials of Power BI, from data importing and transformation to data modelling and visualization, empowering them to make data-driven decisions and communicate insights effectively.

KEY LEARNING OUTCOME

- Understand the basic concepts of data analytics and its importance in business.
- Create data models and relationships to enhance data connectivity and integrity.
- Develop calculations and measures using DAX for in-depth data analysis.
- Build and customize visualizations to create insightful, interactive reports and dashboards.

MODULE 1: INTRODUCTION TO DATA ANALYTICS AND POWER BI

- Overview of Data Analytics and Business Intelligence
- Introduction to Power BI and its key components

MODULE 2: GETTING STARTED WITH POWER BI

- Navigating Power BI Desktop
- Understanding Power BI Service and Power BI Mobile

MODULE 3: CONNECTING TO DATA SOURCES

- Importing data from Excel, databases and web sources
- Setting up data refresh schedules and connections

MODULE 4: DATA TRANSFORMATION WITH POWER QUERY

- Data cleaning and shaping basics
- Handling missing data and creating custom columns

MODULE 5: DATA MODELING ESSENTIALS

- Creating and managing relationships between tables
- Introduction to DAX for calculated columns and measures

MODULE 6: DATA VISUALIZATION TECHNIQUES

- Building and customizing charts, tables, and maps
- Using slicers, filters, and drill-down options for interactivity

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MODULE 7: REPORT AND DASHBOARD CREATION

- Designing cohesive, interactive reports
- Publishing reports to Power BI Service and sharing dashboards

MODULE 8: INTRODUCTION TO DAX FOR ADVANCED CALCULATIONS

- Basic DAX functions and expressions
- Calculated columns and measures for dynamic data analysis

MODULE 9: COLLABORATING WITH POWER BI SERVICE

- Sharing and collaborating on reports
- Creating workspaces and managing access

MODULE 10: POWER BI MOBILE EXPERIENCE

- Optimizing dashboards for mobile view

MODULE 11: DATA SECURITY AND GOVERNANCE IN POWER BI

- Implementing row-level security (RLS)
- Managing data permissions and user roles

MODULE 12: HANDS-ON PROJECT

- Practical, end-to-end analytics project
- Integrating learned concepts to analyze real-world data scenarios

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Design Thinking

1 Day

COURSE SYNOPSIS

Participants will delve into the fundamentals of Design Thinking in this 1-day course. Introduces learners to the Double Diamond Framework, tools, techniques, and mindsets to embrace human-centred innovation in a rapidly changing digital-first world. It encourages participants to approach challenges with fresh perspectives, fostering a deeper understanding of real human needs and creative problem-solving. This course will enable better innovation outcomes in an organisation.

KEY LEARNING OUTCOME

- Identify opportunities where design thinking can be used to address organisational challenges and opportunities.
- Apply the Double Diamond Framework to unpack and define problems in organisations.
- Create low-fidelity prototypes to test ideas and embed iterative design thinking practices within their organisations.

OPENNING

- Objective of the workshop
- Icebreaker: A fun ice-breaker to help participants think from a customer's perspective

MODULE 1: FOUNDATIONS OF DESIGN THINKING

- Introduction to the Double Diamond framework: Fundamentals, principles and methods
- Workshop for participants to explore how some organisations successfully implemented Design Thinking

MODULE 2: DISCOVER AND DEFINE

- Introduction to the Jobs To Be Done framework to help participants discover real problems
- Case study: How Jobs To Be Done has been used by organisations like Apple
- Reframing: How to define problems from a customer's perspective

MODULE 3: IDEATION AND PROTOTYPING

- Understanding the principles of creativity
- A workshop to apply ideation techniques and ways to prioritise ideas
- Bringing Ideas To Life: The power of prototyping

MODULE 4: APPLYING DESIGN THINKING BACK WORK

- Strategies for bringing design thinking back to participants' organisations.
- Addressing potential barriers and fostering a design culture.

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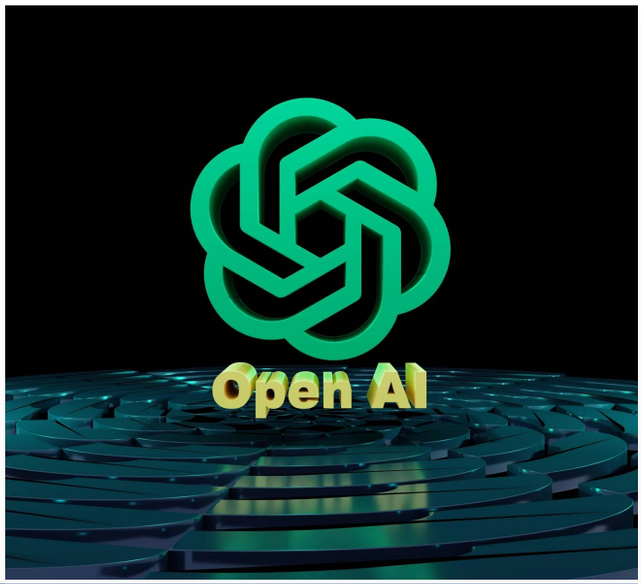
Generative AI for Everyday Work: A Practical Workshop for Professionals

1 Day



COURSE SYNOPSIS

In a world where artificial intelligence is reshaping industries, understanding and leveraging generative AI has become a powerful skill for professionals across every field. This workshop is designed to introduce working adults to the fundamentals of generative AI and provide practical, hands-on experience with AI tools that can transform daily tasks, boost productivity, and inspire innovation.

From crafting compelling reports and presentations to automating routine tasks and creating captivating visuals, attendees will learn to integrate generative AI tools into their workflows seamlessly. Additionally, participants will explore the art of prompt engineering—learning techniques to guide AI for precise and effective outputs

KEY LEARNING OUTCOME

- Understand the Fundamentals of Generative AI: How generative AI models work and their unique capabilities.
- Practical Applications in the Workplace: Learn how to apply generative AI to common professional tasks such as content creation and data analysis.
- Prompt Engineering Skills: Techniques to improve AI outputs through well-crafted prompts, allowing for efficient and productive AI interactions.

MODULE 1: INTRODUCTION TO GENERATIVE AI

- A foundational look at generative AI, key terminology, and real-world applications.

MODULE 2: EXPLORING GENERATIVE AI TOOLS

- Hands-on exploration of popular AI tools for text, image, and video creation, designed to inspire practical application in daily work.

MODULE 3: PRACTICAL APPLICATIONS OF GENERATIVE AI

- Focused scenarios showing how to use generative AI for specific tasks like content generation, data analysis, and design.

MODULE 4: INTRODUCTION TO PROMPT ENGINEERING

- Techniques for creating effective prompts, enabling participants to maximize AI tool effectiveness.

MODULE 5: ETHICAL CONSIDERATIONS AND LIMITATIONS

- Implementing row-level security (RLS)
- Managing data permissions and user roles

MODULE 6: FINAL PROJECT

- Participants apply what they've learned in a mini-project, creating a solution to a real-world work task using generative AI.

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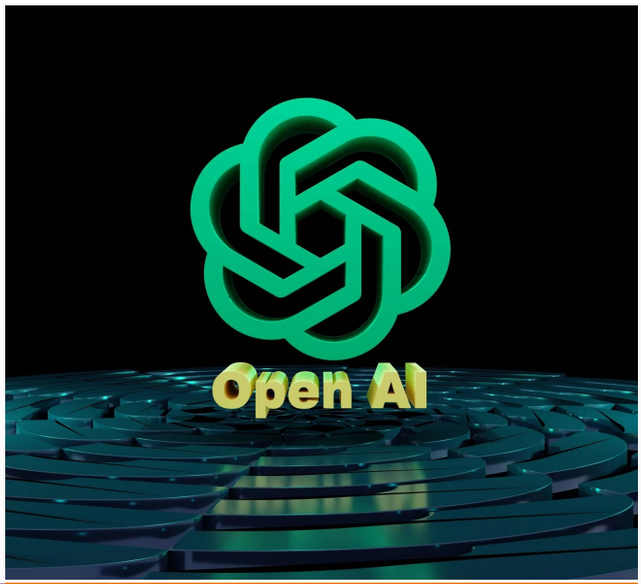
AI Prompting Mastery

1 Day



COURSE SYNOPSIS

Participants will learn how to craft effective prompts to streamline various tasks, from quality control documentation and technical specification analysis to process optimization and safety protocol generation. The course covers fundamental prompting principles, industry-specific applications, and advanced techniques like multi-step prompting and few-shot learning. Through hands-on workshops with practical examples and real-world scenarios, attendees will gain experience in generating documentation, creating clear instructions for AI assistance, and applying prompt engineering for problem-solving. The training also emphasizes best practices, quality assurance, and ethical considerations for responsible AI usage.

KEY LEARNING OUTCOME

- Craft effective prompts for common tasks
- Generate and optimize technical documentation
- Create clear and specific instructions for AI assistance
- Apply prompt engineering for problem-solving
- Understand best practices and ethical considerations

MODULE 1: BASIC PRINCIPLES

- Clarity and specificity
- Context setting
- Input structure
- Output formatting

MODULE 2: INDUSTRY-SPECIFIC APPLICATIONS

- Quality control documentation
- Technical specification analysis
- Standard Operating Procedures (SOPs)
- Troubleshooting guides

MODULE 3: COMPLEX PROMPT STRUCTURES

- Multi-step prompts
- Chain-of-thought prompting
- Few-shot learning with examples
- Role and context setting

MODULE 4: QUALITY ASSURANCE

- Verification strategies
- Output validation
- Common pitfalls and solutions

MODULE 5: ETHICAL CONSIDERATIONS

- Data privacy
- Intellectual property
- Responsible AI usage

NEXT STEP ACTION PLAN

- Integration and usage of AI into daily workflow
- Progress check to be conducted at next quarter (or monthly if required)

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Ready to learn more about our full content offering? Contact us for more information.

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