

عرض فني متكامل

The Specialized Diploma in : Engineering Application

EUROPEAN **B**USINESS **C**ENTER
For Training & Development



مركز الأعمال الأوروبي للتدريب والتطوير
الأقدم والأكثر انتشاراً وعراقه في العالم العربي





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Technical and financial offer including special invitation to participate in a training diploma

We thank you for your attention and good cooperation and your choice of
European Business Center for Training & Development (EBC)

This is a special offer provided by EBC

About the Diploma and the Training .. This course is designed to develop the necessary knowledge to enhance technical and practical skills in the field of **Engineering** .. to keep pace with the progress and development in this important science .. Based on the belief in the importance of training and its impact on developing the administrative and professional business that you are looking for to develop your business and institutions .. The policy of designing comprehensive programs has been adopted which keep pace with progress and development in all fields of business according to specialized scientific curricula that are prepared according to the best international standards of training and supervised and implemented by a specialized academic team.. in order to obtain constructive collaboration .. to exceed your expectations and ambitions to the best. Therefore, We are pleased to inform you that we are fully prepared to hold the training diploma about :

Engineering Application

We are always ready to provide you with all relevant inquiries
hoping that this offer meets your needs and training requirements

Yours sincerely

Attachments :

- Technical Offer (Course Contents)
- Center Overview
- Financial Offer



Samer Merkhan
General Manager

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The Specialized training Diploma about:

Engineering Applications

About The Diploma

This specialized training diploma was designed carefully and fussily to meet all kinds of needs and requirements of engineers and engineering departments managers. This diploma qualifies the participants to be more professional and gives them the ability to excel in business; as it provides software applications that covers both technical and administrative sides with a practical hands-on experience in four different applications; **Autodesk Product design suite, Matlab, MS Project and Primavera.**

Autodesk Product design suite is a comprehensive toolset of design, visualization, simulation, and data management software for digital prototyping. Matlab is a programming platform designed specifically for engineers and scientists. The MATLAB language, a matrix-based language allowing the most natural expression of computational mathematics. Using MATLAB, you can: Analyse data, develop algorithms and Create models and applications.

In order to deliver projects on time and within budget, project management teams create schedules, budgets, registers to model and manage the scope of work. Project management Software Applications make easier to convey information and create reports to demonstrate and represent the real status of the projects. Thus, we provide in this diploma practical applications of Project Management using Primavera P6 and MS Project, the world's most popular project management softwares. Primavera P6 is an integrated project portfolio management software which offers advanced enterprise capabilities. On the other hand, Microsoft Project was designed as a desktop application and Project Server is used to bring enterprise capabilities for flexible project portfolio management to Microsoft Project.

An Overview along with the contents of each software are provided in the next pages.

Deep details of topics for any applications will be provided upon request.



The Program is Accredited by International Accreditation Organization IAO

For more information and to request participation

Kindly call us on the international direct line **0090 545 553 12 12**

Tel : 0090 212 225 66 63 Fax : 0090 212 225 69 94

Or contact us on e-mail : **info@ebc-training.com** Website : **www.ebc-training.com**



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Section 1 : AUTODESK PRODUCT DESIGN SUITE

Duration: 26 weeks

Overview

Autodesk® Product Design Suite is a comprehensive solution for Digital Prototyping, delivering 3D design visualizing and simulation tools to complete an entire engineering process. The Digital Prototyping capabilities of Product Design Suite can help to design better products, reduce development costs, and get to market faster. This suite include powerful tool for every phase of design process without compromises. Decision making is easier when design process is faster and quality is better. Autodesk Product Design Suite 2016 includes two levels: Premium and Ultimate. This Part will be given in **26 weeks**. Training on the software included in both Premium and Ultimate levels is flexible, and the participants can select any group of them depending on the needs and requirements of the participants and the company.

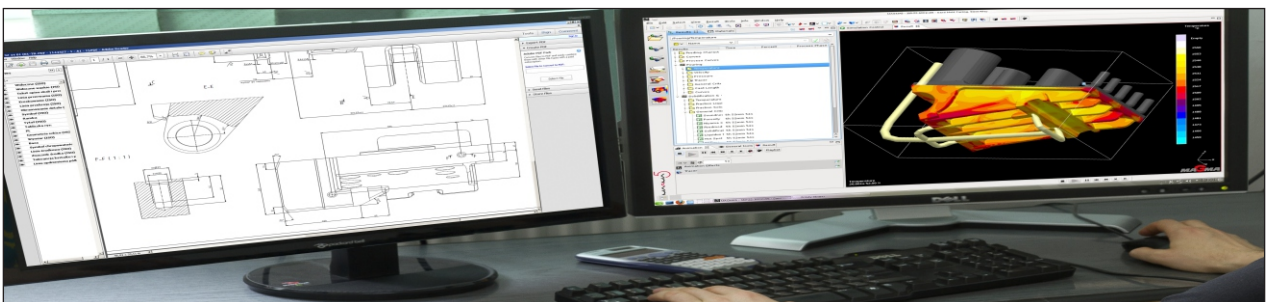
Contents

Premium Level includes :

- Autodesk® Inventor®
- Autodesk® AutoCAD®
- Autodesk® AutoCAD® Civil 3D
- Autodesk® AutoCAD® Raster Design
- Autodesk® Vault Basic
- Autodesk® ReCap
- Autodesk® Navisworks® Simulate
- Autodesk® 3ds Max®

Ultimate Level includes :

- Autodesk® Inventor® Professional
- Autodesk® AutoCAD® Electrical
- Autodesk® Navisworks® Manage
- Autodesk® Alias Design



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Section 2 : MATLAB

Duration: 8 weeks

Overview

MATLAB is a high-level language for numerical computation, visualization and application development. It also provides an interactive environment for iterative exploration, design and problem solving. MATLAB provides vast library of mathematical functions for linear algebra, statistics, Fourier analysis, filtering, optimization, numerical integration and solving ordinary differential equations. It provides built-in graphics for visualizing data and tools for creating custom creating custom plots. MATLAB's programming interface gives development tools for improving code quality maintainability and maximizing performance. It provides tools for building applications with custom graphical interfaces. It also provides functions for integrating MATLAB based algorithms with external applications and languages such as C, Java, .NET and Microsoft Excel.

This part involves a span of 200 hours where the participant will be trained from the basic level to the industrial level with hands on real time projects involving signal processing, image processing concepts. This MATLAB Training program involves 3 stages of learning MATLAB : Beginner, Intermediate and Advanced level. The given topics will be selected depending on the level of the participants.

Contents

The beginner level:

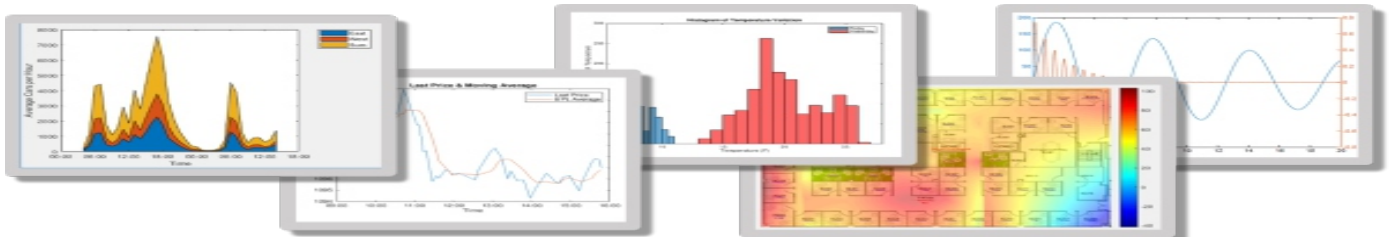
- Basic setup of MATLAB environment
- Basic commands used in MATLAB
- The GUI of MATLAB
- Basics of programming language
- Using functions

The intermediate level:

- Applying different algorithms
- Learning about edge detection in image processing
- Image segmentation
- Feature extraction
- Image compression

The advanced level:

- Applying learned methods in previous levels on mini projects
- Real time examples on signal processing, image processing
- Basics on Simulink library
- Using stateflow in simulink



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Section 3 : MICROSOFT PROJECT

Duration: 2 weeks

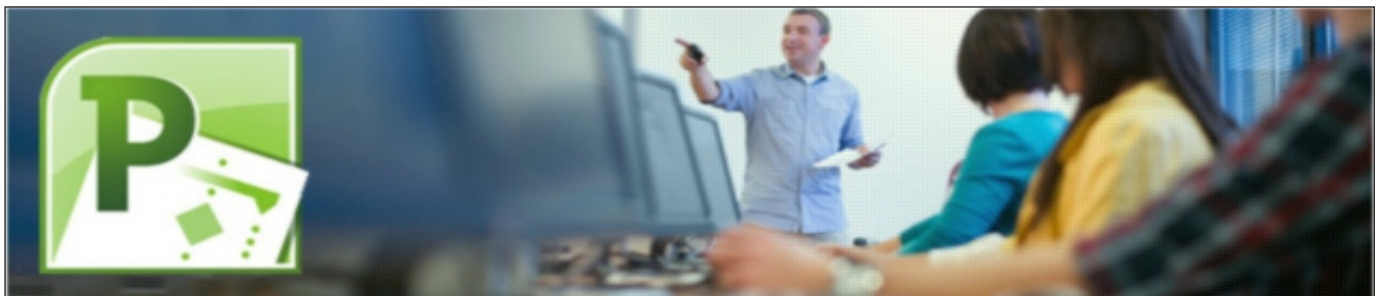
Overview

Microsoft Project is a project management solution designed for enterprises of all sizes. It features project scheduling, which allows project managers to define project tasks, assign them to the team, and track in-progress assignments. Microsoft Project also features project budgeting, which helps managers estimate the costs for the entire span of a project. Managers can also perform “Earned Value Analytics” and estimate the cost performance of their projects. The software provides built in templates, scheduling tools, and access across devices increase productivity for project managers. Microsoft Project provides interactive dashboards and reporting functionalities. The project managers can also prepare insightful reports and make decisions about project execution and staffing levels. Scheduling features like Gantt charts and prepopulated pulldown menus help reduce training time and simplify the project planning process. Microsoft Project can be deployed both on-premise and in the cloud. The web-based version allows project managers to collaborate with their team remotely using smartphones and mobile devices.

This part is designed for the very novice to the expert to teach the participants all what they need within Microsoft Project. It involves a span of 50 hours and will be provided using the latest version of MS Project (2016).

Contents

- Getting Started with MS Project
- Building a Project Plan
- Project Plan and Resources Views
- Working in Project Resources
- Costs and Budgets
- Update the Progress and Status of the Schedule
- Use Project Reports and Data Exports
- Manage Earned Value
- Link Microsoft Project with Other Applications
- Bonus Material and Answers to Questions



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Section 4 : PRIMAVERA P6

Duration: 3 weeks

Overview

Primavera P6 is one of the most useful and effective project management software available on the market. It is designed to plan and manage all kinds of complex projects with satisfying each team members requirements. This software provides all necessary tools and features which helps to manage your projects entire life cycle. Risk management, critical path analysis, resource and cost management are some of the basic features of this software. Organizations that Use Primavera, can successfully manage their projects in today's uncertain economic conditions. There are two versions of P6: Primavera Professional Project Management (PPM) and Primavera Enterprise Project Portfolio Management (EPPM). Although both versions serve the same project management purposes, there are some differences between them. Primavera P6 Project Portfolio Management (PPM) is a Windows-based project planning tool. It consists of the P6 Professional client, which is installed locally on your PC and connects to a database. Oracle Primavera P6 Enterprise Project Portfolio Management (EPPM) is a web-based project management tool which is more suited to medium to large enterprises. P6 EPPM is also mobile compatible, with an Android and iOS app available. This parts will be covered within 3 weeks with a total of 75 training hours using the latest version of Primavera 6 (18.8). The topics that will be covered in this part, as each part in this Diploma, will be also flexible depending on the needs and requirements of the participants and the company.

Contents

Project Portfolio Management (PPM):

- Introduction to Primavera P6
- Scheduling in Primavera P6
- Resource Management in Primavera P6
- Cost Management in Primavera P6 Professional
- Essential Activity Coding in Primavera P6
- Baselines in Primavera P6
- Progress Updating in Primavera P6

Enterprise Project Portfolio Management (EPPM):

- Navigating in Primavera P6 EPPM
- Creating a Schedule in P6 EPPM
- Resource Management in P6 EPPM
- Improving the Schedule
- Recording Progress in P6 EPPM



ORACLE
PRIMAVERA
TRAINING

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Training Methodology



**Theoretical
Lectures**



**Team
Working**



**Discussion
Sessions**



**Practical
Applications**



**Illustration
Videos**

Presentations :

This method is used in theoretical subjects ... And since it is common knowledge that trainees cannot concentrate for long periods with theoretical presentations, we are keen to make presentations in a professional and attractive manner.

Decussion Sessions :

The interaction of trainees through discussion sessions and sharing their opinions is one of the most important tools for effective training .. So by using this method we aim to a trainee who listens and reacts, not to who listens only.

Practical Cases :

It means practical experiences and experiments in the field of companies' business so that their experiences and learned lessons are presented to transfer these experiences to the trainees.

Practical Applications :

The course instructor offers practical applications that targets the skills and knowledge to be achieved by the program They're provided to participants by many techniques, e.g.: **Practical exercises, Surveys and questions and Role representation.**





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Center Overview

An international institution specialized in the training, development and continuous improvement of individuals lives and institutions EBC was founded on **1992** to be the first Arab training center in the area and the first **ISO 9001/2015** holder training center certified by **UKAS**, the world's leading company in providing quality (ISO) certificates, documented with number : **66767 / 2017** EBC has earned great experience and significant position in the training and development field for more than **25** years .. EBC has many offices widespread all over numerous cities .. to be closer to you and ready to serve you everywhere. In addition, EBC has gained many awards and appreciation certificates from well-known international organizations. All our programs and certificates are accredited by nternational Accreditation Organization **IAO** (Houston - United States) and by Brit Collegethat is specialized in management systems and IT the center is also accredited by British Safety Council – London that is specialized in occupational and environmental security and safety, and fire-fight which is one of the greatest international organizations in this field.

We carry out our training to meet the needs of different trainees .. We are concerned in theoretical training in parallel with practical training
We adopt the best academically and professionally specialist experts and trainers who have practical experience

We start from the basis and the right concept of training and development
And we ensure to provide new, important and sophisticated topics to our courses members.

Some of our Official Accreditations



Accredited by :
INTERNATIONAL ACCREDITATION ORGANIZATION
HOUSTON U.S.A



The center provides training and qualifying in the following areas:

Management - Finance - Law - Media - IT - Security & Safety - Engineering - Oil & Gas

Every day you can become better than what you were .. just start now

الاعتماد العلمي



كلية برايت الإنكليزية



اتحاد الجامعات الدولي



مجلس السلامة البريطاني



مطابقة الجودة / الآيزو





The Specialized training Diploma about:
Engineering Application

