Carnegie Mellon

Certification
as Enterprise Architect
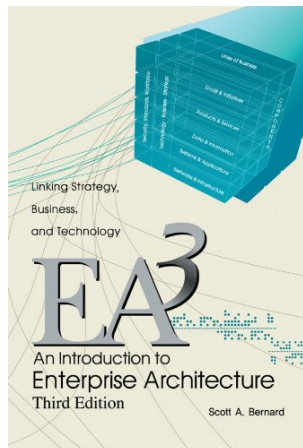
EA Fellows

Fundamentals → Applied → Advanced

The Enterprise Architecture training and certification program from Carnegie Mellon University will give you the knowledge and skills you need to successfully implement an EA initiative in the public or private sector. You will learn to use recognized EA concepts, best practices, and tools from experienced Carnegie Mellon certified instructors.

The EA certification program from Carnegie Mellon University was introduced in Europe in 2007 and was quickly recognized as the classic training for enterprise architects. EA Fellows is the only accredited provider of the program. Courses are arranged in Denmark and Belgium, see the entire course calendar on eafellows.com.

This training program is useful for anyone who is involved in enterprise architecture, particularly those involved in EA planning, EA program management, EA implementation, EA governance or EA auditing. This includes, but is not restricted to Business Executives, Program Managers, Technology Managers, Project Managers and Technical Staff who want to gain an understanding of how to run EA programs.

The program consists of three modules. The first level is aimed at architects and managers who wish to be introduced to EA. The two subsequent levels go deeper and reach out to practicing business and IT architects. Completion of the courses, and two exams on the way, will give participants the title **Certified Enterprise Architect** (CMU).

Carnegie Mellon®
Certified Enterprise Architect

Next Courses in Denmark

**Fundamentals
of Enterprise Architecture**
11 - 14 March 2013

**Applied Enterprise
Architecture Concepts**
8 – 11 April 2013

**Advanced Enterprise
Architecture Concepts**
13 – 16 May 2013

The certification program was developed by Dr Scott A. Bernard, US Federal Chief Architect, and author of *Introduction to Enterprise Architecture*, which is the textbook for the course. In addition to the book, the course material includes 500+ pages of methodology, cases and tools, adapted to a European context by EA Fellows, in cooperation with Scott A. Bernard.

The principal instructor on the certification courses is Dr John Gøtze, CEO of EA Fellows, and Chief Editor of the Journal of Enterprise Architecture. In addition, special guest speakers will be covering selected topics.

During the course, Scott Bernard's enterprise architecture framework called EA³ Cube will be used as a tool for explaining the basic elements of EA, and demonstrating how a framework is used in documenting your enterprise architecture. During the course, we will also explore what TOGAF, Zachman, Sogeti's DYA, and other frameworks have to offer for the enterprise architecture development.

All participants are invited to join *EAlumni* - the official network for enterprise architects attending professional education of EA Fellows. EAlumni is organized as a LinkedIn group, where you can meet more than a hundred professional colleagues and fellow students. From time to time the EAlumni members will receive exclusive offers from EA Fellows, such as publications or invitations to special events.

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Course Facilities

The **Park Inn Copenhagen Airport Hotel** is conveniently situated near Copenhagen Airport, with Metro connection to the city centre (10 minutes). See www.parkinn.com/hotel-copenhagen for further information.

There is free parking in the area around the hotel.

Address:
Engvej 171 - DK-2300 Copenhagen – Denmark

Program

Each course day includes a breakfast buffet at 8.30 in the hotel. Tuition starts at 9.00 and ends at 16.30. Lunch is served in the restaurant from 12.00 to 13.00.

Registration

The fee for participating in each of the 3 modules is 20.000 DKK per person excl. VAT (25%). By enrollment for the entire certification program, the total price is 53.000 DKK. This fee covers 12 days with lunch and coffee, examinations and CMU licensing, certificate from CMU, textbook and course material. The course fee is invoiced after the completion of each module, or by total enrollment after the first module. Registration is binding, but can without expense be transferred to another participant from the same company.

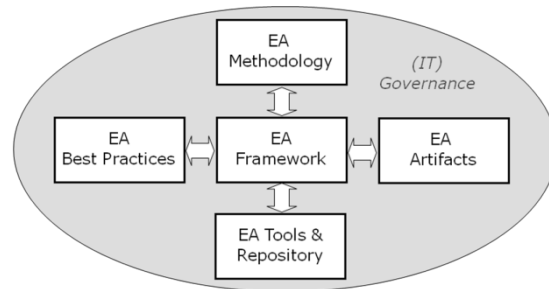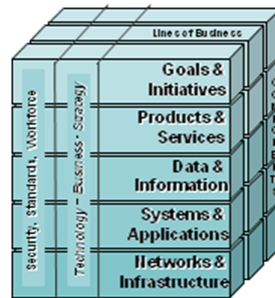Questions? Contact John Gøtze on +45 5124 5878 or john@eafellows.com.

Module 1:

Fundamentals of Enterprise Architecture

This course provides an understanding of how EA serves to integrate strategic and public sector EA frameworks, implementation methodologies, documentation techniques, tool use and best practices. Students will understand how EA serves to integrate strategic, business, and technology planning and documentation methods, which supports enterprise-wide information technology resource development and governance in the context of business requirements.

The course covers:

- EA Theory and Practice:
    - Basic concepts of EA
    - Drivers and value proposition of EA
    - "EA³ Cube" as a complete EA approach
    - Use of EA in private and public sector
    - Basic elements of EA:
        - Implementation Method
        - Documentation Framework
        - Components & Frameworks
        - Reposity & Tools
        - Best Practices
- EA Documentation:
    - Strategy Sub-Architecture
    - Business Sub-Architecture
    - Data Sub-Architecture
    - Systems Applications Sub-Architecture
    - Network Sub-Architecture
    - Security Sub-Architecture
    - Architecture Standards

This includes:

- the identification, development, modeling, and integration of strategic goals, initiatives, and measures;
- business requirements for processes and services;
- and supporting technology solutions including information systems, applications, databases, websites, networks, security, and standards.

The course will also cover basic concepts in linking EA to other governance processes, including capital planning, program management, security, and human resources management.

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Module 2:

Applied Enterprise Architecture Concepts

This module is an intensive workshop with a class-wide enterprise architecture project aiming at building up an integrated set of basic EA artifacts.

Enterprise architecture is not a goal, but **an essential instrument to improve communication, alignment and cooperation between business and IT**. This workshop will show you that building an EA involves a lot of communication with business responsibles about e.g. strategy, mission and vision, ...; with domain and business experts about business initiatives, products and services; with business process experts about business operations; with HR about roles and responsibilities; with IT about systems, applications, networks, databases, etc; without forgetting cross-cutting experts in security, governance, business continuity, standardisation and innovation.

Building an EA is not a simple task and it obviously takes more than 4 days, but we will show you what is involved, the tips and tricks to do it better and faster, and how you can tackle some of the problems and caveats that you will undoubtably encounter.

Imagine yourself as a member of the enterprise architecture team of the large airline company of "Enterprise Airways" (EA). Airline companies are operating in a highly competitive and ever-changing market, with very demanding customers and strict regulations.

This workshop will teach you how to apply enterprise architecture concepts through a class-wide architecture project that develops a web-based EA repository and integrated set of basic EA artifacts.

These artifacts will document/model strategic initiatives and measures; business requirements for processes and services; and supporting technology solutions including information systems, applications, databases, websites, networks, security, and standards.

The course will also cover **best practices to develop EA artifacts in a manner that promotes linkage between the strategic, business, and technology**. After all, EA = S + B + T.

Why should you attend this workshop ?

* This workshop is very practical and guides you through the process of constructing & finding many artifacts of your current as-is architecture.
* During the group-based exercises, discussions within your team and with other teams will be very useful and reflect real-world discussions
* You will learn how to approach the to-be architecture and how this impacts your current architecture

During the workshop, the teams will document/model strategic initiatives and measures; business requirements for processes and services; and supporting technology solutions including information systems and core applications.

The course will also cover best practices to develop EA artifacts in a manner that promotes linkage between the strategic, business, and technology.

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Module 3:

Advanced Enterprise Architecture Concepts

The course builds upon prior knowledge of EA concepts and practices. The course is intended to build proficiency in managing EA programs, establishing/leading EA teams, winning EA work, delivering EA products, and using EA to improve mission performance. The course will also cover advanced concepts on linking EA to other governance processes, including capital planning, program management, security, and human resources management.

Spread over 4 days, the "Advanced Enterprise Architecture" workshop covers:

- An EA program management overview
- The EA program critical success factors
- Integration of EA and IT Governance
- Development and use of business cases
- Developing and managing EA program budgets and schedules
- Developing an EA project schedule
- Managing EA program risk
- EA program metrics using EVM (Earned Value Management)
- EA team development, staffing and training
- Developing an EA statement of work
- EA program maturity using GAO's EAMMF (EA Management Maturity Framework), OMB's EAAF (EA Assessment Framework), CMU's CMM-EA (Capability Maturity Model) and Ross/Weill/Robertson's 4-stage maturity
- EA program governance
- EA management and transition plans
- Using EA in strategic and Scenario Planning, Business Process Improvement, IT Investment Decision-Making, IT Project Management, IT Security Planning, IT Workforce planning, IT outsourcing, ...
- Developing an EA training and personal development plan

This course is intended to build proficiency in managing EA programs, establishing/leading EA teams, winning EA work, delivering EA products, and using EA to improve mission performance. Although it is not absolutely necessary to have attended the 2 workshops above, it is required that participants understand the EA3 cube, and have read the book on EA3 by Scott Bernard. The course will also cover advanced concepts on linking EA to other governance processes, including capital planning, program management, security, and human resources management (HRM).

Following this workshop, participants will have an advanced understanding of EA concepts and practices, and should be able to more successfully establish and lead EA teams and projects in the public and private sector, as well as develop project proposals and gain/maintain customer and stakeholder confidence and support. This will result in improved EA program success, higher quality EA documentation products, improved communication with EA clients and stakeholders, and increased EA value delivery.

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Overview of learning aims

Participants who complete the Fundamentals course will have a basic understanding of EA concepts and practices, and will be better prepared to participate in and add value at a basic level to EA projects in private and public sector organizations. This should result in improved EA program success, higher quality EA documentation products, better support for IT resource planning and decision-making, improved communication with EA program stakeholders, and increased EA value delivery.

Following the Applied workshop, participants will be better prepared to participate in and add value at an intermediate level in EA projects in private and public sector organizations, including documentation, modeling, archiving, tool use, and task accomplishment. This will result in improved EA program success, higher quality EA products, improved communication with EA program stakeholders, and increased EA value delivery.

Following the Advanced course, participants will have an advanced understanding of EA concepts and practices, and should be able to more successfully establish and lead EA teams and projects in the public and private sector, as well as develop project proposals and gain/maintain customer and stakeholder confidence and support. This will result in improved EA program success, higher quality EA documentation products, improved communication with EA clients and stakeholders, and increased EA value delivery.

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