



IBM Innovation Center for Education (ICE)

IBM Systems Center of Excellence (SCoE)

(Cutting edge, industry aligned courses, delivered through a futuristic framework)

Executive Summary

The businesses the world over are undergoing momentous changes. The business environment is becoming increasingly competitive and fiercely challenging.

In this new world of changing business scenario, newer technologies and techniques are becoming crucial for success, and indeed, for survival. Gone are the days, when having robust ERP/SCM and CRM applications was adequate for businesses to create value in the marketplace and continue to lead. The focus is fast changing towards creating new offerings, accessing newer markets, gathering customer feedback, and improving product quality and service levels. Finding, enticing, and retaining customers is becoming more and more important.

In this fast changing world, newer skills are becoming mission critical for success for organizations. Talent aligned to newer realities is in short supply, creating a barrier for growth. Industry today needs leaders in newer skill sets who can analyze the vast amount of data which new technologies such as social networking and mobile devices are creating, and put this information to quick and critical use towards shaping an organization's strategy.

IBM, together with the new solution sets such as Cloud, Business Analytics/Big Data, Enterprise Mobility, & Cyber Security, and decades of experience of training and teaching, are well positioned to take up this challenge. The IBM Systems Center of Excellence (SCoE) program provides cutting-edge certificate programs, which are industry-aligned and futuristic. A new delivery mechanism has been put in place to enable the students to learn newer industry-relevant skills.

A New Vision

Technology industry worldwide is racing ahead at a fast pace. Organizations across the world are grappling with increasing competition, greater customer churn, rising costs, challenges of efficiency, and threats of changing economic climate. This brings in a need for more responsive IT applications and systems which would address these issues with agility, security, scalability, flexibility, and far higher return-on-investment.

This also brings in the need for IT and Business professionals who have a better understanding of these technologies and their applicability.

Moreover, governments and organizations are fast moving their applications from the confines of computer rooms and managing IT applications and systems, to managing devices, sensors and actuators in the real world scenario. This is leading to IT becoming more instrumented, interconnected, and intelligent. As more and more devices and sensors embrace the automation provided by IT, the world is moving towards becoming a smarter plant. And to support this new world reality, we need smarter, dynamic IT infrastructure, and smarter, newer skills sets which can put this technology to use.

With this in the background, it is immensely imperative that we prepare our IT and business leaders with the depth and breadth of skills which are industry aligned, and cutting-edge. This will give them competitive edge over their peers, and will prepare them for meeting the real world challenges head on.

The depth, and breadth of IBM's technology spans across thousands of satisfied customers across the globe, for decades – across various industry domains.

The IBM SCoE program courses will imbibe deep theoretical knowledge delivered to the participating students coupled with broad-based industry alignment, interaction, talent discoverability, and excellence in their professional make-up. The new batches thus trained and accredited will be ready for industry much better than their peers.

This is a new vision. A vision which is based on cutting-edge, industry aligned courses, delivered through a new-age paradigm of delivery through an ecosystem of platform, methodology and mechanisms.

The IBM SCoE certificate tracks

Recognizing this market shift and to overcome this skills shortage, IBM is offering the IBM SCoE program courses. These courses are oriented towards CAMS (Cloud, Analytics, Mobility and Social) and other critical technology, and Industry vertical domain application areas.

The SCoE certificate streams are as follows:

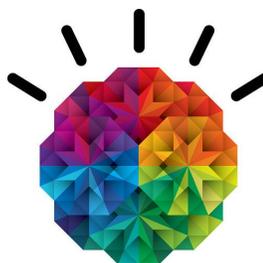
Industry vertical domain tracks:

- Telecom Informatics
- Banking Informatics
- Insurance Informatics

Technology tracks:

- Cloud Computing
- Data Analytics
- Big Data Analytics
- Mainframe Technologies
- Open Source Software
- IT Infrastructure Management
- Mobile Computing
- Cyber Security & Forensics
- Internet of Things

Each of these SCoE Tracks are divided into Subjects, and run for a period of 150 hours of class-room learning. The tracks have fundamental and advanced courses alongwith Lab component. In addition to this, the students also participate in a hands-on project work – through the online platform.



The IBM Systems Center of Excellence (SCoE):

The delivery of these program tracks is in a physical Center which is being proposed as the central piece of a cutting-edge model of delivery.

IBM along with partners have developed a comprehensive Platform and Ecosystem, which brings Industry and Academia together through close interaction between senior industrial professionals and students/ other experienced professionals.

Participating students get to increase their industry orientation through interactive use of this platform, which;

- Provide knowledge and experiences on understanding and use of key technology areas.
- Refresh the knowledge on latest development in technology through discussion forums, FAQs, access to other related sites.
- Help connect the community for support and interaction.
- Provide opportunities to interact with industry experts.
- Track students' collaboration and participation for recognizing meritocracy.

The **Online Learning & Collaborative Ecosystem platform** provides:

- Access to the courseware, technical content, industry resources related to the track and sections for industry collaboration for students and faculty.
- Printed copies of the courseware provided for reference to faculty and library.

The **Project based learning** is at the heart of the Certification tracks:

- The sharing of 'project ideas and scope of work' for student projects. Technology and/or Industry domain orientation of the project.
- Workflow for project selection, team formation and faculty guides.
- Submission and approval of Abstracts, High Level Design, Low Level Design, Test Plans and Test Cases, Final Code.

The **Industry Engagement** through Subject Matter Expert campus sessions and Webinar sessions with students and faculty.

The **Teach the Teacher** conducted by IBM / Industry Experts for the campus faculty team.

- Students' learn from the campus faculty in the classroom.

The **Certificate** provided by IBM upon successful completion of Technology and/or Domain tracks:

- Students' performance tracking through the online portal.

