

CHIEF INFORMATION OFFICER: CHANGING ROLE, POSSIBLE AND PROPOSED ACADEMIC PROGRAMME FOR SOPHISTICATED KNOWLEDGE MANAGEMENT

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ABSTRACT

Information is a vital for all most all the facet and activities; which including corporate, organizations, institutions, academic venture and common people for several purposes. Virtually, the size and amount of Information is increasing day by day and each year triples its size with various formats. The proliferation of information and information explosion produces million and million information or content or document in various forms and format. Today so many professionals are emerged for so many professions. Information Profession becomes most important these days for information requirement and its timely fulfillment. Out of so many Information Professionals, Chief Information Officer [CIO] getting much more attention from the organization and institutions due to their need. The paper is talks about Chief Information Officer [CIO]; their Characteristics, need, role and importance for several organizational information activities, briefly.

Keywords: Information, Knowledge, Content, Information Professions, Chief Information Officer, CIO, CTO, CEO, Knowledge Management, IT, Information Professions, Informatics, Organizational Informatics, Business Informatics

INTRODUCTION

Information is processed with data and structured Instruction; due to its need and role the value of Information is increasing day by day. Today several ways Information are increasing and according to a study, the size is triples each year [05, 06, 08]. Information is needed in all most all type of organization and institutions; regardless of Government or Private, Small or Large, Profit Making or Non Profit Making. Information and its value is also gaining among the common people, student, professionals, and academician and so on. Government need is also important matter. Information Management with several tools, Techniques and technologies are evolve strongly during 1980's-90's. the role of Information in Business sector is needless to say; from product or service design to development to its marketing each cases, Information is valuable, thus; among the profession Chief Information

Officer [CIO]'s profession or job title was emerged during 1990's and changes rapidly after evolution of several Business Intelligence tools and techniques [10].

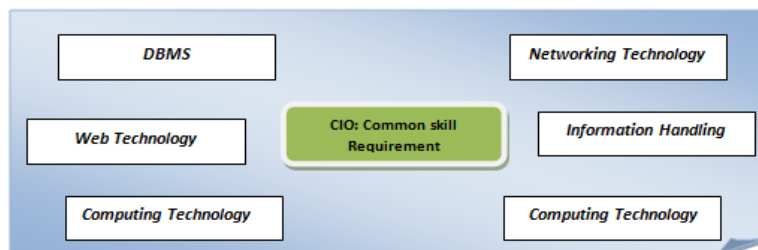


Fig: 1. Depicted some advanced skill requirement of CIO in today's age

OBJECTIVES

Some of the aim and objective of this study is includes; but not limited to as follows:-

- To learn basic about Information and role in several sector and fundamental aspects on Information;
- To know several professions related to Information at a glance;
- To know basic about Chief Information Officer [CIO] and their basic role and duties with changing scenario;
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- To find out more advance approach and possibilities of future Informatics with academic innovation.

Chief Information Officer [CIO] and Information Management: Overview

Chief Information Officer [CIO]' are among the information professionals who works for the organization and complete the requirement of healthy and sophisticated Information Management and Business Information Systems Designing, development, service and evaluation and re modeling depending upon need[03, 12, 19, 22]. The Chief Information Officer [CIO] may work with so many tools and techniques which are traditionally practiced by the general Information Professionals such as Documentation activity, Ledger Maintenance, Document Profile Preparation, Indexing, Abstracting and classification of Information or document depending upon need or requirement. The Chief Information Officer; their characteristics, need, role and technological handling vary country to country. Chief Information Officer [CIO] traditionally deemed as Information Professionals with so many Information activities such as collection, selection, organization, processing, management and dissemination. Today, Chief Information Officer of MNC's, Corporate Houses uses so many tools and technologies such as Database Technology, Multimedia

Technology, and Communication Technology for several Information Processing and Management job. Though, the activities are differs depending upon size and nature of the job and location where the Chief Information Officers are working.

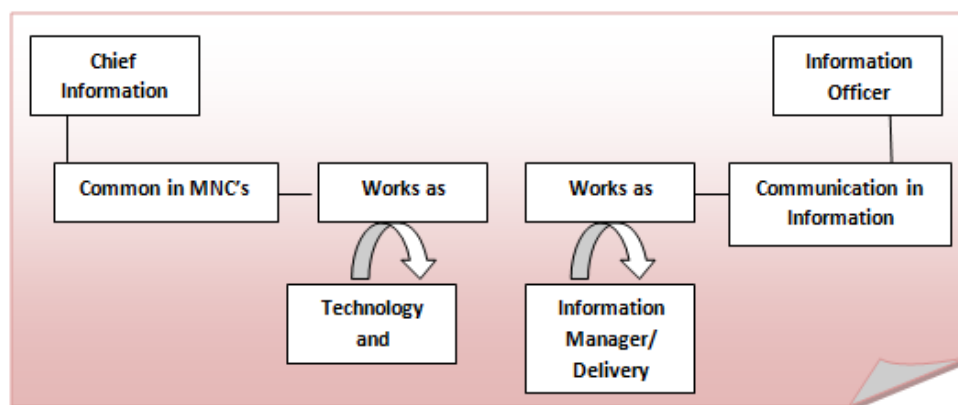


Fig: 2. Depicted main work nature or job functionalities of CIO and Information Officer

Common Function of Chief Information Officer [CIO] and similar Professionals

Chief Information Officer [CIO] is the apex Professionals in the corporate fall under Officer Grade in any Corporate and Corporate houses; they fall under the same league of officer's such as CEO, COO, and CTO and so on. They are kind of MD or Director, Information Management; that comes function of Chief Information Officer [CIO] is includes Information collection, selection, organization, processing, management and dissemination. Though, some activities are also deals by some other professionals such as Information Manager, Librarian, Documentation Officer, Information Analyst, and so on[23, 25, 08].

Chief Information Officer [CIO] works at per with Chief Technology Officer [CTO] and typically reports to the Chief Executive Officer [CEO], Chief Operation Officer [COO], and Chief Financial Officer [CFO]. Information Technology and its application is in Information Professionals changes the entire arena of Chief Information Officer's profession and so on.

Some Chief Information Officer's are works as Leader among so many Information Professionals; where as in small organization or in some cases where Information not treated as main factor may also handle by only Chief Information Officer or Information Administrator. In today's age, Chief Information Officer [CIO] works as needed to take care about several technological inputs and output of concerned organization and in some cases sister organization too.

Chief Information Officer [CIO]: The Techno-Management Role

Today's Chief Information Officer [CIO] is some cases, they works and deemed as so many activities such as Network Management, Database Management, Web and Usability Management and so on depending upon organizational requirement. Days are gone when Chief Information Officer treated as Information Professionals; today they are fully technological professionals and doing some other happening mentioned above; there are Business Intelligence System installation, monitoring, evaluation and remodeling. Thus, uses

of ERP or Enterprise Resource Planning or SAP are most common tools in today's age for sophisticated Information Management [04, 06].

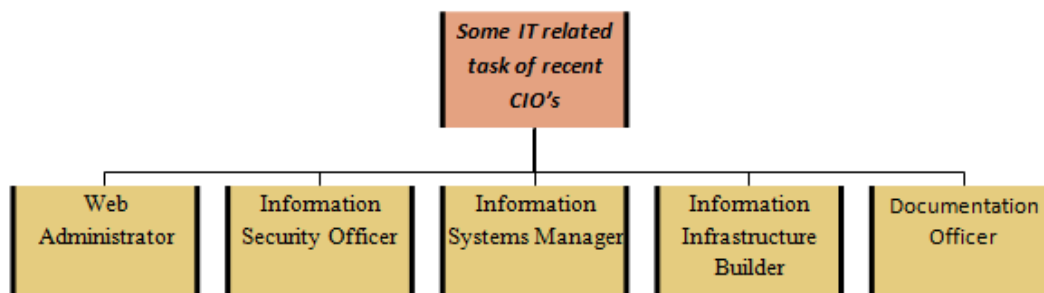


Fig: 3. Showing some allied and related domain of CIO

The role and task of Chief Information Officer [CIO] is changing time to time and varies organization to organization. In several organizations they are Member of Executive Board for their duties and role; they are during service management job too. Apart from Technological Management, Information Management they are also responsible for analysis and modification of existing Business Process. Though, for this work, they Identify and exploring the enterprise knowledge resources. They are also needed for Web Administration, Image Administration, Security and Business Process Management of the concerned Organization.

Emerging Technologies and Chief Information Officer [CIO]

Chief Information Officer [CIO] in today's age doing task of some other officer such as Chief Technological Officer, Chief Technology Officer, ERP Manager and so on. They now adopt manual knowledge organization tools of the organization of job requires such criteria, otherwise use some of the technologies such as Database Technology, Web Technology, Multimedia Technology, Usability Engineering, HCI and HID Systems, and General Software and Hardware Technology.

Though, Information is critical for each and every organizational success; thus Chief Information Officer [CIO] is also doing some interdisciplinary Job such as Business Intellectuality Management, Data Mining and Data Warehousing et up, indexing with computers, ERP and Business Analysis and so on[04, 06, 13].

Thus, in today's age Chief Information Officer's are doing well in Data Administration, Decision Making, Security Management and So on. Recently Chief Information Officer [CIO] are working on Big Data Management for complete Business solution and sophisticated Decision Making powered by Intelligent Information Back Up and Management. Service Management is one of the key tasks of today's Chief Information Officer in many cases.

Some Possible Academic Programme to Become Chief Information Officer

Chief Information Officer [CIO] Job is includes Information Management, Technology Management and Business Management. Though, traditionally or early they only deemed as Information Professionals and thus Information Management was needed; but today as they

did such other work. Thus, Information Management was needed; but today as they did such other work. Thus, ready skilled professionals and their availability is very much tough. As per earlier task, Chief Information Officer did only Information Management thus, Courses on Library Management/Science may deemed for Chief Information Officer [CIO]; but what about Technology and Business Management ? If someone is from Computer Science and Engineering or Information Technology Engineering they can do technological task; but what about Business Process Engineering an Information Organization/ Management?

Thus, we need a sophisticated Information Professionals who should skilled with Technology-Management-Informatics. So, following running and proposed academic programme may be helpful [Though such programme may not available in Current market and Country like India];-

| Technology Related Programme | Management Related Programme |
|--|---|
| <ul style="list-style-type: none">• MBA-Technology Management;• MBA-Information Management / Knowledge Management• MSc- Information Technology Management• MSc- E- Commerce | <ul style="list-style-type: none">• MSc-Information Science [Technology Management]• MSc-Organizational Computing• MSc-Business Information Science• MSc-Information Science and Technology [Business Process Outsourcing] |

Thus, educationalist, Universities need to prepare such programme with interdisciplinary academic innovation for building and making really CIO for future enterprises.

FINDINGS

- The type and Characteristics of Chief Information Officer [CIO] is changing depending upon job, area and type of the organizations;
- Chief Information Officer [CIO] are engaged in Technology Management along with Information Management Task;
- Still availability of ready skilled manpower for Chief Information Officer [CIO] is limited thus; they are come from other domain mainly from Business or IT; not from Information Field.

SUGGESTION

- Organization which are healthy in Information number so many recruit Chief Information Officer [CIO] for sophisticated Information Management;
- CIO is able to do several work of Technology Management, Server Administration; thus by Recruiting CIO, other Job title/ Position may not necessary to Recruit.

CONCLUSION

The traditional tasks of Information Professional are including Information Collection, Selection, Organization, Processing, Management and Dissemination. Through task in organization is more or less change; particularly in MNC's and Nig Companies or corporate houses. Thus, we need to recruit Chief Information Officer [CIO] for healthy decision

making and healthy Business Management Technology. Universities, Educationalist and others need to prepare contemporary Chief Information Officer [CIO] by building and designing new type of interdisciplinary curriculum of existing courses and completely new programmes.

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