

#### Organizers:

#### National Centre for Quality Management (NCQM)

- ❖ NCQM was established in 1985 by a group of enlightened industrialists and professionals to spread the culture of quality in the Indian economy.
- ❖ A Not-for-profit premier professional organization engaged in dispensing quality related services to various sectors of Industry through seminars, training, education, publication, research and advisory services.
- ❖ NCQM has already conducted more than 1000 programmes and seminars related to Quality management, Environment Management, Occupational Health & Safety Management and HR related areas.
- ❖ NCQM has been assisting both Industry and service organizations in developing Quality management, Environment Management, Occupational Health & Safety Management Systems and in training persons in Quality Improvement and HR related areas.
- ❖ NCQM has taken Education and Healthcare as focus areas.
- ❖ NCQM has its Headquarters in Mumbai and Extension Centres at Ajmer, New Delhi, Navi Mumbai, Pune, Nagpur and Rajkot.

#### Medi-Ex Devices Private Limited

Medi-Ex Devices Pvt. Ltd. stands for medical excellence (Medi-Ex) in devices, equipment and healthcare technology related services. Shri Jayvant V. Vaidya and Shri Manish Kothari are Directors of Medi-Ex and members of Organizing Committee.

Medi-Ex represents BSD Medical, USA, for hyperthermia complementing for cancer treatment, Medizintechnik, Germany, for whole body hyperthermia for chronic ailments, Planmed, Finland, for mammography, Johnson Medical, Malaysia, for guided airflow systems, modular operation theatres & surgical pendants, and Surgident, India, for operation theatre tables & lights (with CE Marking) and electrically operated hospital beds.

Medi-Ex offers technical services for calibration, certification and repairing of medical equipment and is also geared up for hospital consultancy and turn key jobs for ICUs, OTs, hospital gas piping and complete hospitals.

Medi-Ex has taken up a social commitment by letting the healthcare community benefit through the long and relevant professional experience of its Directors in the healthcare technology field by associating with National Centre for Quality Management Refer website: [www.medi-ex.com](http://www.medi-ex.com)

#### Register with :

Mr. Aravind Ghaisas, Executive Director,  
National Centre for Quality Management, 503-G, Kailas Complex,  
Vikhroli- Hiranandani Link Road, Vikhroli (W), Mumbai – 400 079.  
Tel: 25170483, 25170469, Fax: 25170144,  
Email: [ncqm@vsnl.com](mailto:ncqm@vsnl.com), [ncqmmumbai@yahoo.co.in](mailto:ncqmmumbai@yahoo.co.in)



An integrated course on

## Hospital Equipment and Systems Management

Leading to award of

## Certified Hospital Manager

On Saturdays from  
October 3, 2009 to  
January 30, 2010

at  
**Hotel Atithi**  
**Vile Parle (E), Mumbai**

#### Organizers

**National Centre for Quality Management (NCQM)**  
Jointly with  
**Medi-Ex Devices Private Limited (Medi-Ex)**

## Introduction

Based on their academic qualifications, most hospital personnel belong to either the clinical or the biomedical engineering stream. In practice, they often come across situations where knowledge of other stream will help them to understand the job requirements better by having a comprehensive understanding of the situations.

Ideally, such comprehensive understanding will enable them to better understand the human body structure, its processes, the signals given out by nature, biomedical instrumentation to pick up, amplify and process these signals, making these available and understandable to the doctors and the paramedical staff in the forms of displays, images, trends, recordings, printouts and alarms. Currently, to the best of our knowledge, there is no short term course which comprehensively covers both these streams to equip a person working in a hospital with such all round capability.

Organizers have developed this Unique integrated course for the first time in South Asia,

An unique feature of the course is that each CT (clinical techniques) module will cover a well defined system, such as the cardio-vascular system, which will also explain surgical procedures like bypass surgery, valve replacement, pacemaker installation etc and it will be immediately followed by its relevant BM (biomedical engineering module, which in this case, will be the ECG machine, stress test, defibrillator etc. This will enable logical flow of information, with the relevant cause and effect relationship.

### Such a course is needed for--

- Career advancement for aspiring and practicing healthcare personnel
- Effective management of medical equipment and systems
- Upgrading skills of key hospital personnel to enable higher brand positioning
- Enriching hospital management's decision making capabilities, including strategy development, make / buy decisions, project management, benchmarking industry practices, enhancing patient safety, concepts of life cycle costing
- Management of Emerging technologies.
- Enhancing awareness regarding hospital acquired infections

### Course benefits:

Persons who undergo such a course, either on their own or by being sponsored by a hospital, will acquire 360 degrees' professional competence by

- (1) acquiring working knowledge of the other stream, to which they had little or no exposure and
- (2) refreshing their knowledge in the field of their own specialization. An Individual will have definite scope for career advancement.

## Eligibility:

Graduate in medicine (Any branch) or Graduate / diploma in biomedical engineering / instrumentation / medical electronics or Graduate / diploma / certificate in nursing / pharmacy / pathology / physiotherapy / hospital technician. With a minimum of 2 years' experience in patient care area.

Graduates in Science with a minimum of 2 years' experience in patient care area will also be considered

## Course Fees :

Rs 30,000/-plus service tax (Includes handouts, lunch, tea): 10 % discount for NCQM members

Note: Installments may be considered for deserving self sponsored individuals.

**Venue : Hotel Atithi, 77, A & B, Nehru Road, Vile Parle (E), Mumbai-400099.**

## Organizing Committee:

<b>Dr Harish Nadkarni</b> Chairman, NCQM Healthcare Committee, Gynecologist; Assessor-NABH. Email : harishnadkarni@hotmail.com	<b>Dr. K D Desai</b> Former Head, Medical Electronics Dept, SBM Polytechnic, Mumbai M-9967002026 Email: kddesai@hotmail.com
<b>Dr. A G Patil</b> Former Head, Medical Electronics Dept, SBM Polytechnic, Mumbai Tel: 022-26103500 / 26103454, Mob: 9869014375 Email: agpatil@rediffmail.com	<b>Prof H C Patel</b> Former Principal, SBM Polytechnic and former Prof & Head, Mech. Engg Dept, VJTI Hon. Secretary, NCQM Tel - ( R ) – 26492803, Mob: 9930800252 Email : prof_hc_patel@yahoo.com
<b>Manish Kothari</b> Chief Executive, Medi-Ex Devices Pvt Ltd Proprietor, Meditron Systems & Excel Services Tel: 26136071; Mob: 9821129107 Email: manish@medi-ex.com	<b>Jayvant V Vaidya</b> Executive Director, Medi-Ex Devices Pvt. Ltd Former Head, Medical Equipment & Systems, Larsen & Toubro Limited Former Chairman, Medical Electronics. Division, IEEMA Former Vice Chairman, Medical Equipment Division, CII Tel: 26049852; Mob: 9820345117 Email: jvv@medi-ex.com

The organizations will gain by value addition to the hospital's functioning by investing in their key healthcare support personnel. Such an individual will have enhanced utility to the organization.

By bridging the perceived gap of knowledge, as mentioned above, a hospital will be able to enhance its brand positioning. This, in turn, will contribute to higher patient satisfaction, higher respectability in the eyes of the attached specialist doctors, help gear up for ISO 9001 and NABH/JCI accreditation, earn more respect from health insurance companies and TPAs. Above all, it will pave the way for qualifying and attracting medical tourism.

#### Course Objectives :

- To helping the candidates acquire knowledge of other stream which, by and large, is missed out.
- To intelligently understand the broad rationale behind treatment processes, protocols and options and thus play a meaningful supportive role.
- To grasp the fundamentals, including how and why and to shoulder responsibilities with more logical, confident and mature approach.
- To appreciate various design features in modern equipment and devices and intelligently select the right options, mostly on their own.
- To boost self confidence, which is vital when facing emergencies and also when discharging routine duties, so as to achieve a higher patient throughput.
- To enable the hospital management to get intelligent inputs on equipment selection, life cycle costing, awarding AMC/service contracts, certification and recertification programmes, running outsourced services, remodeling/rehabilitation/expansion projects, planning satellite centres, ambulance services, telemedicine facilities, health check up programmes, marketing of hospital's services and so on.

#### Course Coverage:

##### Clinical Techniques(CT) Modules

- I. Anatomical overview and physiological processes
- II. Medical, therapeutic and surgical procedures
- III. Generation of bio-potentials
- IV. Intensive care techniques / emergency measures
- V. Analytical and Laboratory Techniques
- VI. Frontiers of emerging technologies

##### Bio-medical Engineering Modules---

- I. Signal pick up, conduction, processing, amplification, display
- II. OT planning & applications
- III. ICU practices
- IV. Patient safety
- V. Equipment standards / certification
- VI. Equipment selection
- VII. Life cycle costing;

##### Management Modules--- Hospital as a corporate:

- I. Finance and costing
- II. Marketing of hospital services
- III. Hospital operations management
- IV. Organisation design - behaviour and HR
- V. Hospital management

##### Aspects to include--

- CT and BM Modules
- Physiological processes; Physical Measurements; Generation of Bio-Potentials; Intensive Care Techniques / Emergency measures; Analytical and Laboratory Techniques Signal generation and pick up; Signal amplification; Signal display; OT Planning & Applications; ICU Practices; Patient Safety; Equipment standards / certification; Equipment Selection; Life Cycle Costing

##### Faculty for the Programme :

Faculty Members will be from following groups :

1. Eminent Doctors and Pathologists
2. Senior grade administrators in large hospitals
3. Senior Biomedical Practicing Engineers who has Industry Experience
4. Senior faculty of Bio-Medical Engineering / Medical Electronics Course.

##### Course Directors :

Dr. Harish Nadkarni and Prof. A. G. Patil will be Faculty Directors:

##### Features:

Topics will be presented using Power Point Presentation: Interactive sessions: Progressive and Term end assessment will be held.

##### Duration:

Full day contact sessions every week on Saturday spread over one academic term(17 weeks).

##### Batch size: 20

##### Target Groups:

Medical and Non-medical owners (with service background) of Nursing homes and hospitals  
Corporate hospital management support persons  
Faculty of relevant academic Institutions  
Individuals, for career advancement  
Government/Municipal healthcare/medical education departments  
Healthcare related persons  
Healthcare consultants  
Medical equipment/ pharma companies

**REGISTRATION FORM**

Executive Director  
National Centre for Quality Management  
G 501-503, 5<sup>th</sup> Floor, Kailas Complex  
Parksite, Vikhroli - Hiranandani Link Road  
Vikhroli (W), Mumbai - 400 079.

Please register the following persons for the course on **Hospital Equipment and Systems Management** starting on Saturdays from October 3, 2009 at Hotel Atithi , Vile Parle (E), Mumbai.

1. Name : \_\_\_\_\_

Dsg. : \_\_\_\_\_ Mobile no.: \_\_\_\_\_

2. Name : \_\_\_\_\_

Dsg. : \_\_\_\_\_ Mobile no.: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ Mobile no.: \_\_\_\_\_

Organisation : \_\_\_\_\_

Address : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Tel : \_\_\_\_\_

Fax : \_\_\_\_\_

Email: \_\_\_\_\_

DD/Cheque No. \_\_\_\_\_ Date \_\_\_\_\_

drawn on \_\_\_\_\_ Bank for Rs. \_\_\_\_\_

in favour of **National Centre for Quality Management** is enclosed.

Name : \_\_\_\_\_ Sign : \_\_\_\_\_

Dsg : \_\_\_\_\_ Date : \_\_\_\_\_

**We are / are not member of NCQM**

**Recommended by:** \_\_\_\_\_ **(if any)**