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Development of Team Competence and IT Projects at Hospital

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Abstract

So-called "upper process", that is from the process of System Requirements to External design, is very important for developing good performed Health Information System (HIS). But there are few who understand both information technology (IT) and medical field. We trained some medical staff for understanding IT at our hospital. So that, more than 30 staff have been certified as Healthcare Information Technologists, given to capable persons who understand both IT and medical field by Japan Association of Medical Informatics (JAMI), so far. An IT project team was formed officially with these staffs and given some short courses of Unified Modeling Language (UML) and the method of modern project management (PMBOK) for HIS innovation project. Our team achieved successfully writing documents of System Requirements of our new HIS consists of more than 30 subsystems within ca.2 months at our hospital.

Keywords:

system requirements, UML, project management, PMBOK, healthcare information technologist

Introduction

It is widely known that so-called "upper process" is very important for developing good performed HIS. JAMI began to certify Healthcare Information Technologist (HIT) in 2003, for bringing up a capable person who understand both IT and medical field. We trained some medical staffs for understanding IT at our hospital, and more than 30 members have been certified as Healthcare Information Technologists. After training of some short courses of Unified Modeling Language (UML) and learning the method of modern project management (PMBOK), HITs are thrown into IT project of HIS innovation of our new hospital which will be built 4 years later.

Methods

IT Project Team and competence development

Our IT project team is constructed by 30 members (5 medical doctors, 6 medical lab technologists, 5 radiological Technologists, 4 nurses, 4 pharmacists, 1 clinical engineering technologist, 1 Physical Therapist, 4 medical secretaries). All members are certified as HIT by JAMI. The team is organized officially in our hospital, so that it enable us to use several resources of the hospital, and to make up environment for studying and/or practicing IT technology.

Every members select one of 3 Special Interest Groups in our team; network technology, information security, database technique, to develop their own competence for achieving various services in each field. Members have been given some short courses of Unified Modeling Language (UML) and Project Management (PMBOK) for developing their competence.

Results

To innovate our hospital HIS, we organized IT project team and developed our team competence in advance. Our team achieved successfully to writing documents of System Requirements for new HIS, which is made up more than 30 subsystems, within ca. 2 months.