

# Section 6

## Human Resources Development

### 1. IT Education in Public Schools

The installation rate of educational computers in public schools was one for 11.1 pupils in fiscal 2001. In addition, most of the public schools are now connected to the Internet with the connection rate jumping from 57.4% in fiscal 1999 to 97.9% in fiscal 2001.

The proportion of public school teachers who can operate computers was 84.9% in fiscal 2001. At the same time, the proportion of teachers who can teach computer classes became 47.4% in fiscal 2001.

### 2. Development of IT Experts

#### (1) Necessity for IT-capable human resources in companies

Since IT has come to be used widely and frequently in corporate activities, such as e-commerce and introduction of various information systems, it has become increasingly important to develop and secure human resources that can utilize IT in order to maintain competitiveness in corporate activities. Today, 42.0% of companies recognize lack of people capable of network administration and manage-

ment as a problem in using information and communications networks (it is a reason for not using information and communications networks in the case of companies that do not use such networks) (Figure 2-10). The most commonly implemented IT education for employees in companies was "external IT educational/training programs" with 25.3% and "in-house IT educational/training programs" with 21.2%. However, the proportion of companies that had not implemented any IT education for employees was the highest at 42.6% (Figure 2-11).

#### (2) Development of IT experts in universities, etc.

In order to respond to the needs for IT experts and to maintain/increase Japan's international competitiveness, there are calls for developing people with advanced, expert IT knowledge and technology even in university education. According to a survey by the Ministry of Education, Culture, Sports, Science and Technology (MEXT), the number of people who acquired a master's degree or a doctor's degree in an IT-related field was 14,808 and 1,663, respectively, in fiscal 2001.

Figure 2-10: Problems Companies Face in Using Information and Communications Networks

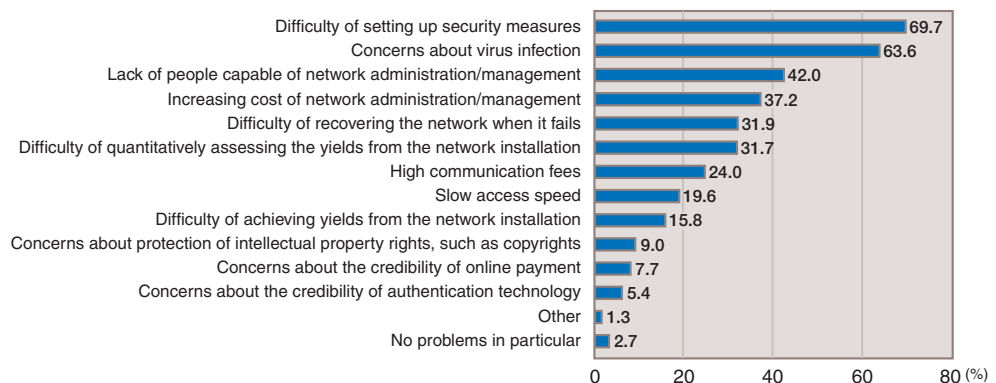
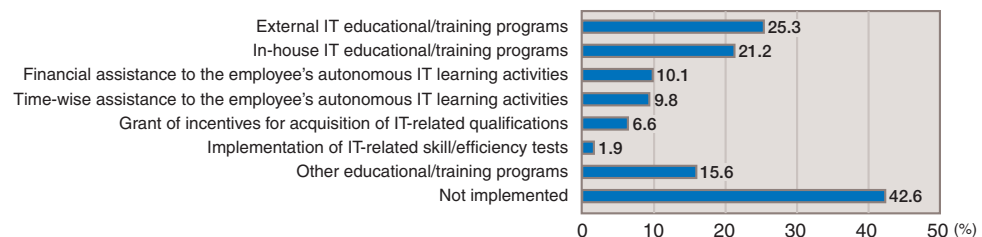


Figure: 2-11: Implementation Status of IT Education for Employees in Companies



Source (Figures 2-10&2-11): "Communications Usage Trend Survey in 2002," MPHPT.