Toward the Expansion of Recurrent Education



July 28, 2018 Ministry of Education, Culture, Sports, Science and Technology

Proposals, etc. Concerning Relearning by Adults (1)

Basic Policy on Economic and Fiscal Management and Reform 2018 (Cabinet Decision of June 15, 2018)

* Same text as the Basic Design for the Human Development Revolution (Council for Designing 100-Year Life Society decision on June 13, 2018)

Realization and Expansion of the Human Development Revolution Recurrent Education

(Expansion of education and training benefits)

Significantly expand the scope of lectures covered by specialized practical education and training benefits (70% subsidized)...such as the addition of professional undergraduate courses.

Also, expand the scope of benefits for general education and training, and <u>double the rate from 20% to 40%</u> for lectures that are highly effective for career advancement such as IT skills. In particular, <u>relax the minimum number of hours of lectures from 120 hours to 60 hours</u> to make it easier for adults to take lectures certified by the Minister of Education, Culture, Sports, Science and Technology. In addition, consider measures for significantly increasing the number of students.

Actively proceed with the <u>utilization of a structure recognized as qualification for graduating by accumulating credits</u> obtained at various schools (credit accumulation system)

(Recurrent education through industry-academia collaboration)

Provide intensive support for <u>development of recurrent education programs</u> that are both novel and practical, and effective and highly necessary as employment measures.

O Development of programs in pioneering areas

Through industry-academia collaboration, by entrusting development to universities, vocational schools and private educational and training institutions, <u>develop programs in around 20 areas precedingly</u> (such as AI, sensors, robots, manufacturing using IoT, business administration, agricultural technology, nursing, childcare and support for the reinstatement of women utilizing company internships) and deploy them nationwide. Also, work with industry groups and academic societies, etc. to significantly expand practical programs and actively provide archives online, in addition to networking web pages providing information on lectures for recurrent education operated by private companies and establishing portal sites providing comprehensive information.

ORecurrent education of engineers

In areas such as information processing, bio, fine chemicals, engineering and robots, <u>newly establish recurrent education courses enabling</u> researchers and engineers in companies to receive recurrent education on the latest technology in academic societies, etc. in collaboration with industry, and entrust them with their operation. When doing so, provide programs on academic society websites and online. Also work to notify companies to encourage researchers and engineers to receive recurrent education in the business community.

O Training for the development of practitioner teachers

<u>Develop and implement development programs of practitioner teachers</u>, and create a mechanism for recommending graduates of the course to universities, etc. as candidates of practitioner teachers.

Also conduct matching of local universities and practitioner teachers, and consider support measures for actually working as teachers in local universities.

Proposals, etc. Concerning Relearning by Adults (2)

♦ Growth Strategy 2018 (Cabinet decision of June 15, 2018)

Creation of Foundation for Transformation of Economic Structure Development and utilization of human resources required in the AI era

(KPI) Increase the number of adult students in universities and vocational schools, etc. to 1 million by FY2022.

(2015: Approx. 490,000)

Specific measures to be taken

Expansion of base of AI human resources, etc. utilizing recurrent education and the like in universities, etc.

- Significantly expanding recurrent education such as <u>short-term education programs</u> for adult students in universities and specialized training colleges, etc., <u>online lectures</u> using the Open University of Japan and MOOCs, etc., and also <u>establishing systems for</u> <u>providing recurrent education in universities, etc.</u> such as <u>establishing recurrent education centers, etc.</u>, <u>securing</u> high-quality <u>practitioner teachers</u> including teaching skills, and creating partnerships between professional graduate schools and the business community.
- Expand the scope of benefits for specialized practical education and training to <u>courses in professional undergraduate schools</u> and also work with the "business practice skill development programs" in universities and the "business practice specialized courses" in specialized training colleges to <u>expand the lectures covered</u> to provide the skills, etc. required in the AI era.

◆ 2018 Basic Policy on Revitalizing Towns, People and Work (Cabinet decision of June 15, 2018)

Exciting Regional Lifestyle Realization Policy Package

Development of new workers through the active participation of women and the elderly, etc. (240,000 people over six years)

© Fundamental enhancement of recurrent education for promoting the active participation of women and the elderly, etc.

- Promote remote classes using ICT and the efforts of local public organizations, regional universities and vocational schools to fundamentally enhance recurrent education programs from the perspective of promoting to start work, entrepreneurship and participation in regional activities by women and the elderly, etc. and from the perspective of aiming to secure human resources and improving productivity in small and medium businesses in regional areas,

- <u>Support the establishment and renovation of recurrent education training facilities</u> by utilizing grants for establishing regional revitalization sites contributing to the productivity revolution.

Current Number of Adult Students

Many adult students learn in university undergraduate schools (correspondence course), graduate schools and specialized training colleges.
 The number of entrants into regular courses has been flat in recent years, but <u>the number of people taking extension courses that are often</u> <u>one-off or short-term is increasing</u>.



400,000 200,000

Issues in Learning by Adults (1)

 \bigcirc Factors impeding learning by adults include problems with time, expense and curriculum.

Breakdown of problems in self-development perceived by workers (full-time employees)



Basic Survey on Human Resources Development"

4

Issues in Learning by Adults (2)

- Approximately 80% of companies utilize private education and training institutions as external educational institutions Meanwhile, <u>very few</u> <u>utilize universities, etc.</u>
- O The highest ranked reasons for not utilizing universities, etc. were "We didn't even think of using universities, etc." and "We don't know what kind of programs are offered by universities, etc."
- O Meanwhile, <u>companies with employees taking courses at universities, etc. evaluate them highly</u> regarding points such as "improvement of expertise," "obtaining a wide range of knowledge" and "increasing motivation."



Future Direction of the Expansion of Recurrent Education in Universities, etc.

1. Expansion of Supply of Recurrent Education Programs

[Awareness of current state]

- The total number of programs is low.
- Many programs are held in major cities, and there is a regional bias.
- Few have practical content.

[Direction of consideration]

- O <u>Nationwide deployment</u> through fundamental increase in the creation and implementation of <u>educational</u> programs through collaboration between industry and academia.
- Improvement of systems for the promotion of development of short-term and appealing programs
 Quality assurance and expansion of scope of practical short-term programs, etc.
 - <<u>Quality assurance</u> such as promotion of participation of the business community in creation of programs and <u>inclusion of short-term</u> programs, etc. for >
- (2) Review of enrollment certification systems, promotion of the use of credit accumulation systems, etc.
- O Significant expansion of practical online courses in the Open University of Japan and MOOCs, etc.

2. Securing Human Resources Able to Provide Practical Education

- Securing teachers able to plan and implement programs is an issue.
- "Practitioner teachers" have little experience in teaching students.
- It is difficult for current practitioners to find time.
- It is difficult to secure "practitioner teachers" in individual universities.

- Improvement of the teaching ability of practitioner teachers by mandating training for those without experience in teaching in universities, etc. (<u>quality assurance</u>). < <u>Development of training programs and promotion of</u> <u>taking programs</u>>
- O Establishment of mechanisms enabling the practitioner teachers required for implementing programs to be secured smoothly and easily (<u>quantity assurance</u>). <<u>Creation of platform for sharing human resources</u>>
- Establishment of an environment facilitating teaching by practitioners working on the front line.

3. Establishment of an environment where it is easy to take courses

- Low recognition and a sense of urgency for recurrent education.
- It is difficult to find time and money to participate in recurrent education.
- The results of learning are difficult to see and are not recognized by companies, etc.
- Visualization of the effect of learning. < Clarification of requirements for quality assurance such as knowledge and skills that can be learned>
- \odot Expansion of opportunities to come in contact with information related to recurrent education.
- O Reduction of economic cost. < Coordination with employment insurance systems and tax systems, etc.>

4. Fostering of momentum supporting these

- (1) Participation in the development and implementation of programs in the business community
- (2) Active support and evaluation of learning by adults
- (3) Fostering of awareness of career building among women who have left the workplace

Council for Designing 100-Year Life Society (6th Meeting: March 23, 2018) Materials Submitted by Minister of MEXT

Reference Materials

Council for Designing 100-Year Life Society (6th Meeting: March 23, 2018) Materials Submitted by Minister Hayashi of the Ministry of Education, Culture, Sports, Science and Technology

1. Expansion of Supply of Programs on Recurrent Education

[Direction of consideration]

- Nationwide deployment through the fundamental increase in the creation and implementation of educational programs through collaboration between industry and academia
- Improvement of systems for promotion of development of short-term and appealing programs
 - Expansion of Ministerial certification system for practical programs, etc. < Quality assurance, such as promotion of participation of the business community in the creation of programs and inclusion of short-term programs and so on>
 - (2) Review of <u>enrollment certification systems</u>, promotion of the use of <u>credit accumulation systems</u>, etc.
- Significant expansion of practical online courses in The Open University of Japan, MOOCs, and the like

Measure (1) Fundamental increase in the number of recurrent education programs through collaboration between industry and academia



[Learning form for adult students]

Regular courses, extension courses, short-term programs ("enrollment certification programs" (systematic learning programs that are short-term, but have a fixed number of hours).



- "Development of core specialist personnel in plant factories" (Osaka Prefecture University) Course time: 67 hours
- Training of personnel managing and operating plant factories made by combining many scientific technologies through classroom lessons, practical lessons and business plan exercises.
- Computing technology Science Practical Education Programs" (Toyohashi University of Technology) Course time: 73 hours
- Practice from the basics of the latest simulation technology to practice and learning of more advanced programming skills.
- "Physical Therapist Clinical Brush Up Course" (Bunkyo Gakuin University) Course time: 73 hours
- > The latest information, knowledge and techniques required in rehabilitation therapy workplaces obtained through lectures and practical work.

Measure (3) Enhancement of The Open University of Japan's Online Education and Collaboration Programs

[Characteristics of the Open University of Japan]

- Accepts 90,000 students with a wide range of ages who are mainly adults. Over 350 subjects are available via television, radb and the Internet. - Over 3,000 face-to-face classes (schooling) are held in 50 learning locations nationwide.



2. Securing Human Resources Able to Provide Practical Education

[Direction of consideration]

Improvement of the teaching ability of practitioner teachers by mandating training for those without experience in teaching in universities, etc. (quality assurance). <Development training programs and promotion of taking training programs>

<Creation of platform for sharing human resources>

Establishment of mechanisms enabling the practitioner teachers required for implementing programs to be secured smoothly and easily (quantity assurance).

O Establishment of an environment facilitating teaching by practitioners working on the front line.



<Examples of teacher development programs>

The University of Tokyo Future Faculty Program (Todai FFP)

→ Starting with university mechanisms, learning how to make syllabi and how to conduct 90-minute lessons.

Tenure Teacher Training System at Ehime University → Development of skills and provision of financial support related to general tasks required as a university teacher (teaching, research and management) throughout 11 the entire university based on a systematic program.

3. Establishment of an environment where it is easy to take courses

In order to expand recurrent education, it is important to establish an environment that promotes evaluation of the results learned, recognition of information on universities and independence of career building, etc., in addition to an environment responding to issues such as work style (working hours) and expense.

- Problems in relearning perceived by workers (full-time employees)
 - I am too busy and don't have time 59.3%
 - Too expensive 29.7%
 - I don't know which course is appropriate for the career I aim for 20.4%
 - I don't know what career to aim for 17.7%
 - The results of relearning are not recognized within the company 16.9%
 - <u>I can't find appropriate education and training</u> 16.5% (FY2016 Basic Survey on Human Resource Development)

[Direction of consideration]

Visualization of the effect of learning.
Clarification of requirements for quality assurance such as knowledge and skills that can be learned>

 \bigcirc Expansion of opportunities to come in contact with information related to recurrent education.

O <u>Reduction of economic cost</u>.

<Coordination with employment insurance systems and tax systems, etc.>

Measure (1) "Visualization" of results of learning

1. Establishment of mechanisms for assuring the quality of recurrent education programs

○ In addition to promoting participation of the business community in creation of programs, promotion of clarification and publication related to the content and level of knowledge and skills that can be learned, and relationships with regular programs.

2. Creation of "Expert mini (tentative name)" certifying results by the Open University of Japan

Introduction of "Expert mini (tentative name)" facilitating learning in a short period in collaboration with the business community, etc. for the "Open University of Japan Expert" that has been used until now. * A unique subject group enrollment certification system certifying that learning is conducted systematically. A total of 28 plans including the "Basic Clinical Psychology Plan" are available.

Measure (2) Creation of contact points with learning information

 1. Establishment of a portal website
 2. 0

 stimulating adults' motivation to learn
 2. 0

 Spread of information connecting adults with education programs such as experience in career advancement through learning (role models), consolidation of evaluation of lectures by people who have completed the program.

2. Creation of a place where adults can come in contact with information on programs of universities, etc.

Utilization of opportunities such as exhibitions and fairs to provide places for adults and companies facing career issues (e.g. improvement of advanced IT) to obtain information on recurrent education in universities, etc.

3. Fostering of awareness aimed at career building among women who have left the workplace

 Provision of PR promoting life planning for themselves through diverse channels in life for women who have left the workplace due to childcare, etc.

Measure (3) Reduction of economic cost.

○ Enhancement of lectures leading to the reduction of learning expenses, such as lectures certified by the Minister of Education, Culture, Sports, Science and Technology (business practice skill development programs, business practice specialized courses).

12