

Continuous Professional Development (CPD) for Surveyors

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Key words: Continuous Professional Development (CPD), capacity building, licensed surveyors

Related topics: WG VI/1

ABSTRACT

Recognizing the rapid progress of surveying technologies in ITC age, the JAS initiated CPD in cooperation of 8 public corporations and 5 academic societies including JSPRS in the field of geo-informatics such as survey, photogrammetry, remote sensing, cartography, geodesy and so on. The CPD will be benefited by those who have gained higher points in terms of the evaluation by those clients who plan bidding.

JAS has received more than 3,700 surveyors who registered the CPD project in a system called "SUCCESS". The system will be provided to those central and local governments who wish to refer to the CPD points and evaluate those private companies whose surveyors joined the CPD project.

JAS is planning to provide e-learning system to those local surveyors in order to save travel time and cost by attending the tutorials normally organized in Tokyo. In 2005, the standard criteria of pointing system have been agreed, which will be also applied by other public corporations and academic societies.

INTRODUCTION

Japan Association of Surveyors (JAS) is a non-profit organization (NPO) aiming at the promotion and popularization of surveying technologies based on membership. The main activities involve the publication of the official journal of

survey, capacity building of skilful surveyors through tutorials and examinations, inspection of survey instruments and survey results etc.

JAS took initiative to establish CPD Consortium for Surveyors in August 2004 in cooperation of relevant organizations such as Japan Federation of Survey and

Planning Associations, Japan Society of Photogrammetry and Remote Sensing (JSPRS) and so on. The main points of CPD are to maintain and upgrade the skill of surveyors through tutorials and seminars, to evaluate those efforts by giving points to those registered surveyors and to let those clients be informed those companies with higher score for consideration of the selection of bidding companies.

JAS has established a computer system called "SUCCESS" by which any client can refer to the company name of which surveyors are evaluated with higher score or not.

Central and local governments start to make approach to "SUCCESS" when they plan bidding event in the field of geo-informatics.

OUTLINE OF CPD BY JAS

- 1) Targeted Surveyors: Ordinary members of JAS as well as the member organizations are eligible to register the CPD project
- 2) Learning Programs: CPD Committee will authorize those tutorials, seminars, publications and other activities which should be evaluated with specific points.
- 3) Registration of Points: Those registered members have to apply the certification to list up the name of individual and belonging company with those program and point, when they joined the program.
- 4) Disclosure of Points through SUCCESS: JAS discloses CPD point of individuals with only ID number

which can be accessed by those registered members. JAS also provides those registered clients with CPD point and company name with a special password.

- 5) Submission of Certificate: Any registered member can obtain the certificate of CPD point.

MEMBERS OF CPD CONSORTIUM FOR SURVEYING

Eight associations and five academic societies as listed below joined the CPD Consortium for surveying.

Associations:

- 1) Japan Association of Surveyors (JAS)
- 2) Association of Precise Survey and Applied Technology (APA)
- 3) Japan Map Center (JMC)
- 4) Survey Education Center
- 5) Mapping Enterprises Association Japan
- 6) Japan Federation of Land and House Investigator's Association
- 7) Japan Construction Information Center (JACIC)
- 8) Japan Federation of Survey and Planning Associations

Academic Societies

- 1) Japan Society of Photogrammetry and Remote Sensing (JSPRS)
- 2) The Geodetic Society of Japan
- 3) Constitution of the Geographic Information Systems Association (GISA)
- 4) Japan Cartographers Association (JCA)
- 5) The Remote Sensing Society of Japan

(RSSJ)

BASIC PRINCIPLES OF CPD POINT

CPD Committee has approved the four basic principles for pointing in CPD.

- 1) Equal Opportunity: Any member can join the CPD programs, which are authorized by CPD Committee.
- 2) Fair Judge: The evaluation of pointing should be acceptable and agreeable.
- 3) Traceability: Any CPD program can be traceable with written documents.
- 4) Single Booking: Double booking shall not be permitted in case of jointly organized tutorials and seminars.

AUTHORIZED PROGRAMS

According to the report of CPD project as of the beginning of 2006, the following programs are authorized for CPD point.

- 1) Japan Association of Surveyors: 115
- 2) Japan Society of Photogrammetry and Remote Sensing: 9
- 3) The Geodetic Society of Japan: 7
- 4) Japan Construction Information Center: 4
- 5) Japan Cartographers Association: 6
- 6) Association of Precise Survey and Applied Technology: 5
- 7) Japan Cartographers Association: 6

The detail information will be available at the following web site.

<http://www.jsurvey.jp/cpd/cpdmanual.html>

JAS has accepted the registration from 3,734 registrants as of March 2006.

CPD POINT BY JAS

The following points are approved by CPD Committee.

- 1) Participation in Tutorial: 1 per hour
- 2) Lecturer: 3 per hour
- 3) Oral & Poster Presentation: 2 per paper
- 4) Peer reviewed paper: The first author: 5 and co-author: 2
Technical report: The first author: 3 and co-author: 1
- 5) Publication of a technical book: Single author: 10 and co-author appeared in the cover page: 5. Co-author without appeared in the cover page: 2
- 6) Member of technical committee: Chairman: 2 and other members: 1
- 7) Award: Licensed Special Surveyor: 7, best paper:6, applied survey award: 4 and young author award: 3
- 8) Subscriber of "The Journal of Survey": 5

CPD POINT BY JSPRS

For comparison with CPD point by JAS, the following CPD points by JSPRS will be interesting.

- 1) Subscriber of "The Journal of Photogrammetry and Remote Sensing": 5
- 2) Peer reviewed paper: The first author: 5 and co-author: 2
- 3) Technical report: the first author: 3 and co-author:1
- 4) Oral presentation: 2
- 5) Participation in tutorial: 1 per hour

- 6) Lecturer of tutorial and seminar: 3 per hour
- 7) Publication of book: Single author: 10, co-author appeared in the cover page: 5 and co-author without appeared in the cover page: 2
- 8) Award: Best paper: 6, young author award: 4 and best presentation at annual or fall convention: 2

WEB ACCESS BY ORDERING ORGANIZATIONS

At this moment, the 70 ordering organizations are using the web site of "SUCCESS" for collecting information about the quality of surveyors, the CPD point, the evaluation of surveying companies etc.

Out of 70 organizations, there are 9 central governments, 26 provincial governments and 35 local governments which are given password to access the web site.

The average access number per month is about 290 hits, which totalize 5,965 accesses since July 2004.

BIDDING REQUIREMENT

As the CPD project has just started since 2004 and the accumulated points are not yet sufficient for the selection of bidders, those ordering organizations are using "SUCCESS" as supplementary information. However, it would be possible for those ordering organizations to consider the CPD points as their bidding requirements. On the other hand, JAS and other CPD Consortium Members should increase more opportunities of education and

training.

As the cost of participation in CPD program for local members is much higher as compared with those living in big cities such as Tokyo and Osaka where most of CPD programs are implemented, e-learning on the base of self learning should be developed.

In 2005, JSPRS has published a CD ROM teaching material on "Applications of Geo-spatial Information" for CPD program including examination for CPD point. Such self learning system will be welcomed by those by those surveyors working in local cities.

CONCLUSIONS

- 1) JAS took initiatives to start CPD program for surveyors in cooperation of other 13 relevant organizations since 2004.
- 2) However, it will be too early to evaluate whether it is successful or not. The success depends on how much the ordering organizations will use the CPD point as the bidding requirement.
- 3) The necessity of CPD for surveyors has been well recognized with 3,663 registrants up to January 2006.

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