BLENDED LEARNING METHOD TO IMPROVE LICENSED CADASTER SURVEYOR COMPETENCY STANDARD IN INDONESIA

Deni Santo, Kariyono, Mulyadi

Ministry of Agraria Affairs and Spatial Planning / National Land Agency INDONESIA

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OUTLINE

1. Overview
2. Aim and Research Question
3. Licensed Cadastral Surveyor Competency
4. KKNI Training Using Blended Learning Method
5. Conclusion
I. OVERVIEW

Licensed Cadastral Surveyor 2014-2020

<table>
<thead>
<tr>
<th>Year</th>
<th>ASK</th>
<th>SK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>1679</td>
<td>114</td>
</tr>
<tr>
<td>2015</td>
<td>2039</td>
<td>151</td>
</tr>
<tr>
<td>2016</td>
<td>2427</td>
<td>296</td>
</tr>
<tr>
<td>2017</td>
<td>4492</td>
<td>1239</td>
</tr>
<tr>
<td>2018</td>
<td>7695</td>
<td>1960</td>
</tr>
<tr>
<td>2019</td>
<td>11128</td>
<td>2373</td>
</tr>
<tr>
<td>2020</td>
<td>12202</td>
<td>2614</td>
</tr>
</tbody>
</table>

(Licensed Cadastral Surveyor 2014-2020

LICENCED CADASTRAL SURVEYOR

<10 %

Have Competency Certificates

KJSKB

131 of 187

Had No Working Experience

(Adopted from ATR/BPN, 2020)
2. AIM AND RESEARCH QUESTION

This paper aims to analyze the role of the Human Resources Development Center (PPSDM) of the Ministry of ATR/BPN in improving SKB’s competency standards by applying the blended learning method.

This paper analyzes the result of Focus Group Discussion (FGD) between the Center for Human Resources Development of the Ministry of ATR/BPN (PPSDM) and the Directorate General of Land and Spatial Survey and Mapping, Directorate General of Rights Determination and Land Registration, Data and Information Center, Indonesian Surveyor Association (ISI), and Indonesian Cadastral Expert Society (MASKI).
3. LICENSED CADAstral SURVEYOR (II)

Indonesian National Work Competency Standard (SKKNI) Cadaster

Juridical Aspect
Legal Data: 9 Unit Competencies

Technical Aspect
Surveying and Mapping Activities
31 Unit Competencies

JURIDICAL

TECHNICAL

ADMINISTRATION

Administration Aspect
Collecting, processing, bookkeeping, dan presentation and maintenance of physical data and juridical data
7 Unit Competencies

Unit competencies in SKKNI Cadaster
3. LICENSED CADAstral SURVEYOR (II)

Indonesian National Qualification Framework (KKNI) Cadaster

Madya Cadastral Surveyor
KKNI Level 7

Junior Cadastral Surveyor
KKNI Level 6

Madya Cadastral Surveyor Assistant
KKNI Level 4

Junior Cadastral Surveyor Assistant
KKNI Level 3

First Cadastral Surveyor Assistant
KKNI Level 2

KKNI Cadaster (Adopted from ATR/BPN, 2020)
<table>
<thead>
<tr>
<th>No</th>
<th>Training materials</th>
<th>Unit code</th>
<th>E-Learning duration (hour)</th>
<th>On Class/ Distance Learning (hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td><strong>Competency units group</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1.1</td>
<td>Identify parcel boundary</td>
<td>M.71KDT00.003.1</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>1.2</td>
<td>Make a stub path for the survey, and ensure the viewpoint can be seen in all directions</td>
<td>M.71IGN00.034.2</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>1.3</td>
<td>Arranging terrestrial survey target equipment</td>
<td>M.71IGN00.036.1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>1.4</td>
<td>Implementing occupational safety, health and environment (K3L) at work sites</td>
<td>M.711000.001.01</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>1.5</td>
<td>Conduct survey location orientation</td>
<td>M.71IGN00.130.1</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>1.6</td>
<td>Make benchmark / hydro Pilar</td>
<td>M.71IGN00.051.2</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total I</strong></td>
<td></td>
<td>21</td>
<td>22</td>
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<td>II.</td>
<td><strong>Supporting group</strong></td>
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<td>2.1</td>
<td>Training policy overview</td>
<td>-</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>2.2</td>
<td>Building Learning Commitment</td>
<td></td>
<td>2</td>
<td>3</td>
</tr>
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<td>2.3</td>
<td>MTSL speech</td>
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<td>3</td>
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<td>2.4</td>
<td>Competency test</td>
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<td>3</td>
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<tr>
<td></td>
<td><strong>Total II</strong></td>
<td></td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td><strong>Total I s.d. II</strong></td>
<td></td>
<td>22</td>
<td>30</td>
</tr>
</tbody>
</table>
Blended Learning, in general, is a learning method that combines classical (face-to-face) methods with learning methods that use online media (e-learning). Blended learning practices will facilitate both 'same-time different-place' and 'different-time different-place' types of interactions (Aditya, 2020).

The implementation of learning with the blended learning method depend on five keys to success, namely live event, self-paced learning, collaboration, assessment and performance support materials Carman (2005).
BLENDED LEARNING METHOD (II)

- E-Learning: ppsdm.atrbpn.go.id
- Distance Learning: ppsdm.atrbpn.go.id
- On Class: On schedule
- Competence Test: cbt.atrbpn.go.id

Ministry of Agraria Affairs and Spatial Planning /National Land Agency
To develop the competence and professionalism of licensed surveyors, it is necessary to have the Indonesian Cadastral National Work Competency Standards. This competency standard is the basis for competency-based human resource management and development system.

Training using the blended learning method is part of the digital transformation of Center for Human Resources Development (PPSDM) of the Ministry of ATR / BPN in the industrial era 4.0. The Blended Learning method combines classical (face-to-face) methods with learning methods that use online media (e-learning).

The Blended Learning method is one of the PPSDM's strategies to increase the competency of Licensed Surveyors' human resources to support national land strategic programs.
THANK YOU

CONTACTS

DENI SANTO
Human Resource Development Center
Ministry of Land Affairs and Spatial Planning / National Land Agency
Jl. Akses Tol Cimanggis Cikeas Udik, Gunung Putri, Bogor, Jawa Barat, 16966
INDONESIA
Email: denisanto.bpn@gmail.com
Web site: www.ppsdm.atrbpn.go.id