

# Certificación Profesional

## Resumen del Programa

Mark Baldwin – Coordinador del Programa

Antonio Tort – Representante de bSSCh

# Certificación Profesional – Visión General

## Objetivo:

- Facilitar un criterio global para el Aprendizaje y Certificación de openBIM

## Beneficios:

- Promover los estándares, procesos y buenas prácticas de buildingSMART
- Posicionar buildingSMART como marca global y garantía de calidad en la Certificación de competencias BIM
- Crear una fuentes de ingresos para los Capítulos y bSI

# Certificación Profesional – Visión General

**Nuestro objetivo no es proporcionar formación sino proveer un marco/esquema global de aprendizaje, para:**

1. Estandarizar los contenidos formativos en openBIM
2. Acreditar entidades formadoras
3. Examinar y certificar personas  
(que hayan cursado estos programas acreditados)

# Necesidades del Mercado

**81%** - 'Es necesaria la certificación de competencias BIM'.

**79%** - 'basado en los principios de openBIM'  
(12% no favorable a openBIM)

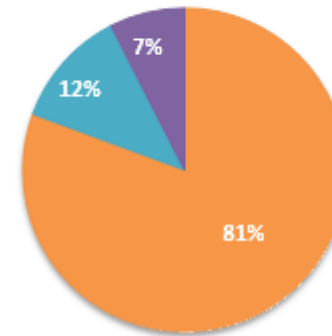
**68%** - 'buildingSMART debería estar involucrado'  
(16% opina lo contrario)

**64%** cree que la certificación debe ser de pago

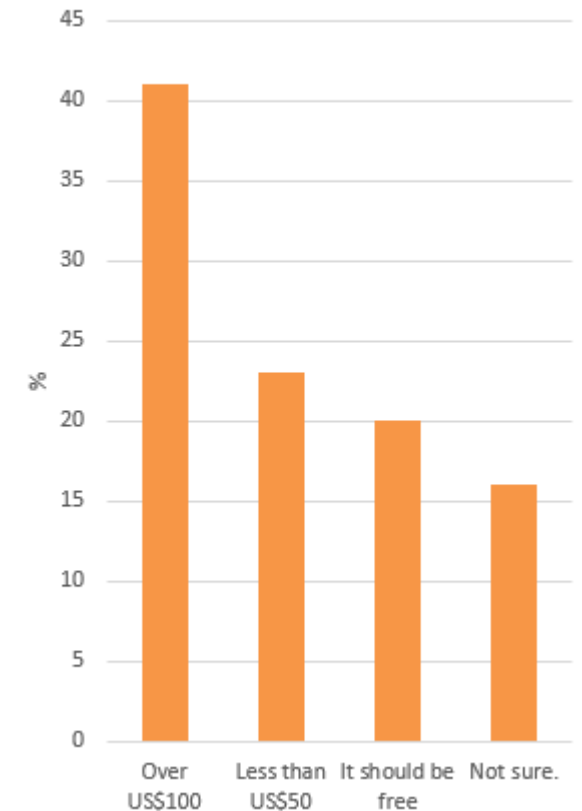
- 41% más de US\$ 100
- 23% menos de US\$ 50.
- 20% cree que la certificación debe ser gratuita

Do we need Individual BIM certification?

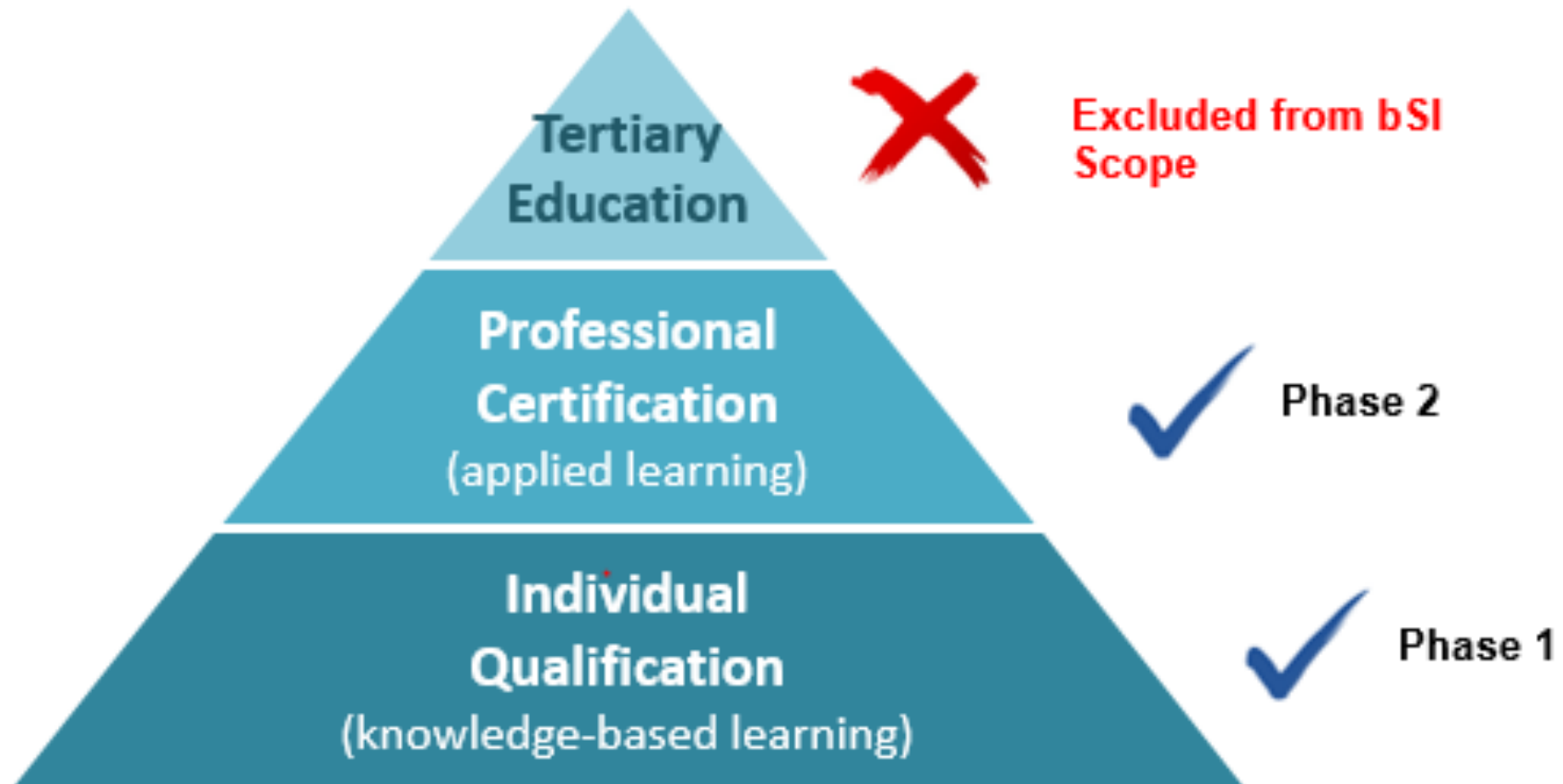
Yes No Not Sure



what should it cost?



# Ámbito

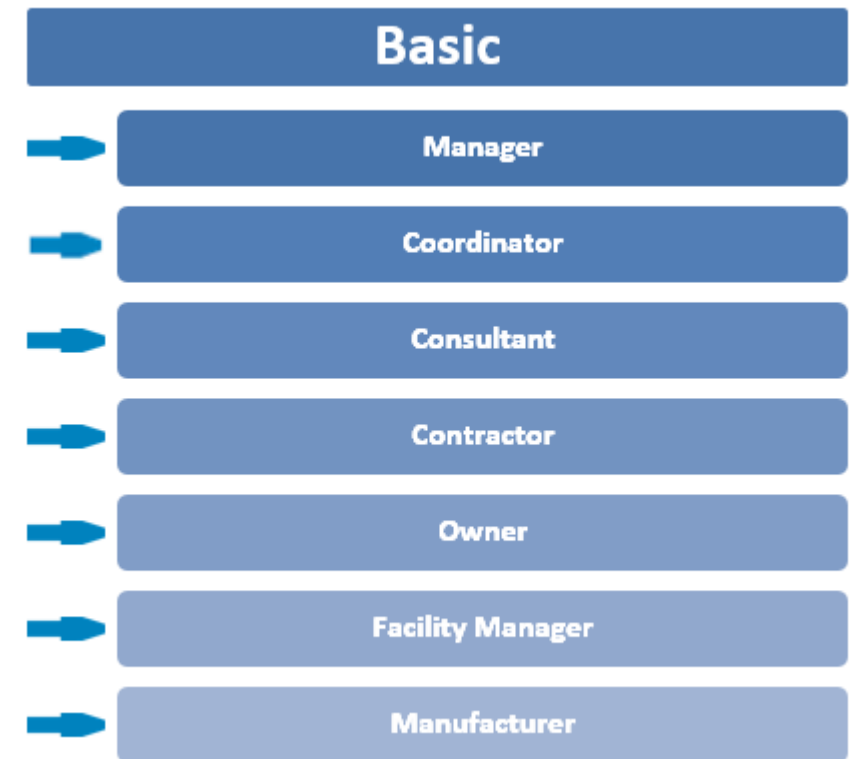


# Fase 1: Individual Qualification

*¿Término en español?: certificación-titulación-cualificación*

## 3 componentes:

- 1. Esquemas de Resultados de Aprendizaje - (Learning Outcome Frameworks - LOF's)** – que describen el contenido de cada uno de los **ocho módulos**.
- 2. Aprobación de Programas Formativos -**  
Procedimiento para revisar y aprobar los programas formativos que concurran a ello.
- 3. Individual qualification** – El examen y la calificación de personas que han cursado un programa formativo aprobado.



# LoF Resumen



## **BASIC - Learning Outcome Framework Overview**

Below is a preview of the LOF for the **Basic** module. Please note, this is not a complete LOF, but rather a listing of the items to be covered, for preliminary chapter review and comment.

**To be Comfortable with what BIM is, why it is needed, and its specific Terminology.**

Delegates on completion should be able to:

- Define the drivers that have led to BIM;
- Define BIM;
- Identify & Define key BIM terminology;
- Define BIM maturity levels; and
- Define what constitutes an Information Model.

**To appreciate the advantages that BIM can bring compared to a traditional project, the historical issues within the industry and its role BIM has in satisfying government targets.**

Delegates on completion should be able to:

- Know why collaborative and new ways of working are required;
- Identify the effects of poor information management on projects;
- Identify the standards developed to mitigate poor information;
- Identify the benefits of BIM to construction professionals; and
- Identify the benefits of BIM adoption to clients, and facility management.

# Ejemplo LoF (Cortesía bS Noruega)

<b>No.</b>	<b>Learning target</b>
<b>Project Examples</b>	
01-01-01	Know the effect of up to three projects that use openBIM and which demonstrate <ul style="list-style-type: none"> <li>- increased multidisciplinary collaboration</li> <li>- economic benefits</li> <li>- improved quality</li> </ul>
01-01-02	Know the benefits of openBIM for clients: <ul style="list-style-type: none"> <li>- More streamlined process</li> <li>- Increased consistency between order and result (quality)</li> <li>- Improved time and financial management</li> <li>- Improved profitability</li> </ul>
01-01-03	Know the benefits of openBIM for consultants: <ul style="list-style-type: none"> <li>- Improved quality of collaboration</li> <li>- Increased consistency in multidisciplinary coordinated production documentation</li> <li>- Competitive advantage because openBIM experience is requested for more and more projects</li> </ul>
01-01-04	Know the benefits of openBIM for contractors: <ul style="list-style-type: none"> <li>- Competitive advantage by being able to submit quotes and tenders with less uncertainty with regard to cost and time</li> <li>- Better management of time and finances</li> <li>- Improved profitability</li> </ul>
01-01-05	Know the benefits of openBIM for management and operations: <ul style="list-style-type: none"> <li>- Improved functionality in the building</li> <li>- Lower operating expenses</li> </ul> <p><i>The following point assumes FM &amp; Operation documentation is available from openBIM:</i></p> <ul style="list-style-type: none"> <li>- Improved access to and maintenance of FM &amp; Operation documentation</li> </ul>



# Prototipo de Plataforma de Examen

(Cortesía bS Noruega)

The image displays two overlapping screenshots of the buildingSMART Norway exam platform. The top-left screenshot shows the login page with the following elements:

- Header: buildingSMART (Sandbox) English (en) Log in
- Logo: buildingSMART NORGE sandbox
- Section: **Log in**
- Form: Username (mark.baldw), Password, Remember username (checked), Log in button
- Links: Forgotten your username or password?, Cookies must be enabled in your browser, Some courses may allow guest access, Log in as a guest
- Footer: © buildingSMART Norway

The top-right screenshot shows the exam interface with the following elements:

- Header: buildingSMART (Sandbox) English (en) My courses Mark
- Logo: buildingSMART NORGE sandbox
- Breadcrumbs: Dashboard > b > W > Certification Exam 2017
- Section: **bSN Utdanning Basis**
- Question 1: Not yet answered, Marked out of 1.00, Flag question
- Question Text: [01-01-01-02] Velg den riktige overordnede effekt ved bruk av åpenBIM
- Options: Select one: A. Økt timeforbruk, B. Økonomisk gevinst, C. Økt kostnad
- Navigation: QUIZ NAVIGATION (grid of 43 questions, 1-43), Finish attempt ..., Time left 0:34:45, Next page button
- Footer: © buildingSMART Norway, Developed and Maintained by Softarch Technologies AS

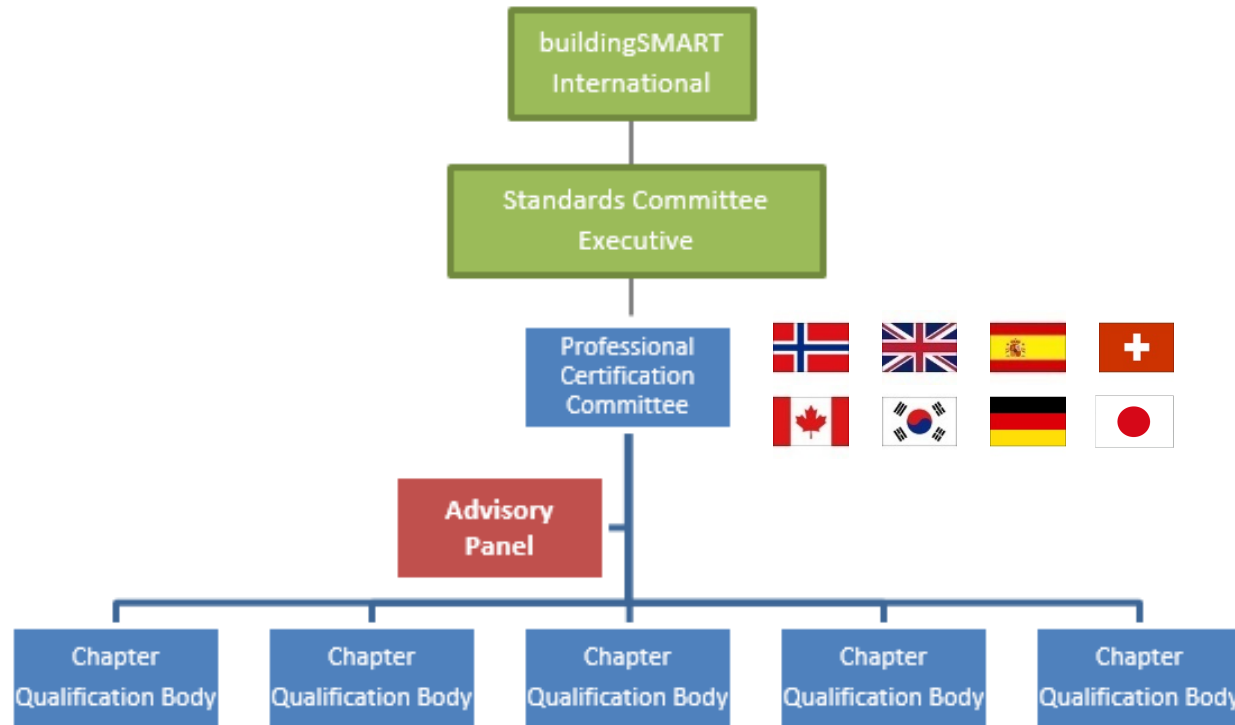
# Logos & Branding

- Próximamente:
  - Página en buildingSMART.org
    - [www.buildingsmart.org/professional-certification/](http://www.buildingsmart.org/professional-certification/)
  - Nuevo Dominio: buildingSMART.education



A screenshot of the buildingSMART Professional Certification website. The page features the buildingSMART logo at the top left, followed by the text "buildingSMART Professional Certification" and "International home of openBIM". Below this is a navigation menu with links for "About", "Users", "Standards", "Compliance", "Chapters", "Members", "News", and "Site Map". A search bar is located on the right side. The main content area includes a section titled "The global benchmark for openBIM training" with a sub-header "buildingSMART stands for quality assurance and standardisation in the digitalisation of the built asset industry." Below this is a paragraph of text and a list of bullet points. The right sidebar contains sections for "Quick Links", "Upcoming Events", and "Calls for Participation".

# Organigramma



## Gold Sponsors:



# Costes y Estimaciones

- **Certificación de curso** **1.500€ – 2.500€** **(1.000€ pagados directamente a bSI)**  
(válido por un año)
- **Cualificación Individual** **75€ – 125€** **(50€ pagados directamente a bSI)**

## Estimación Global

- 10-40** cursos aprobados por año \* **(Ingresos bSI € 10.000 - € 40.000)**
- 1.000-4.000** cualificaciones individuales por año \* **(Ingresos bSI € 50.000 - € 200.000)**

\*(basado en estimaciones aportadas desde Noruega, Países Nórdicos, Canadá, UK, España, Corea del Sur, Japón, Alemania y Suiza)

# Calendario (inicialmente previsto)

## Fase 1 «**Individual Qualification**»

- LoF Básico será distribuido a los Capítulos en Mayo 2017
- Prototipo Plataforma Examen Online disponible en Mayo 2017
- Plataforma de Examen definitiva Julio 2017
- Primeros Cursos Aprobados estimados en Julio 2017

## Fase 2 «**Professional Certification**»

- Comenzará el 1<sup>er</sup> Trimestre de 2018.

# Certificación Profesional

Muchas gracias