

ES119021

New BIM Managers Start Up Guide

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Learning Objectives

- What is BIM???
- 10 Key Terms
- Roles and Responsibilities
- Salaries
- Integrating with Management & Non-BIM
- BIM Documents
- Standards and Templates
- Training
- Tools for the Trade
- Marketing BIM

Description

Whether you are looking for a BIM Manager or want a job as a BIM Manager, but you have no idea where to start – This class is for you. Without a doubt, BIM management requires an extremely diverse set of management skills and toolsets. This roll is often called upon to provide tips, tricks, technologies, tools, and strategies to better manage the company's BIM environment. A BIM Manager needs to have the ability to tackle problem identification, problem solving, user motivation, senior management support, budgeting, training program justification, objection handling and more. I hope that this class will give you a few insights and resources to help you hire the BIM Manager you need or give you the resources to be the best BIM Manager possible.

Speaker(s)



I am a BIM Manager with 20+ years total experience servicing as a BIM Design Lead, BIM Content Builder, BIM Coordinator, and BIM Teacher, experienced in both 2D and 3D production. I bring experience guiding clients from kick off planning, all the way through SDC and VDC, and visualization with High End renderings and VR. Background is Architecture, but I have built designed content for every discipline.

I also have 20+ years of Graphic Design, Digital Media and Publication experience.

Personal Blog: <http://bimtheworld.wix.com/hydroglyphic>

<https://servicesmarketplace.autodesk.com/provider/public/charles-berteaux-iv>



All of the content in this presentation was taken from my personal experience in the AECO field for over 20 years, and numerous publications online and in print. All copyrights and trademarks belong to those people and are cited below.

What is BIM?

Slide 6 Resources:

https://en.wikipedia.org/wiki/Building_information_modeling

10 Key Terms Every BIM Manager Should Know

Slide 8 Resources:

<http://www.bimpanzee.com/bim-3d-4d--5d--6d---7d.html>

<https://www.thenbs.com/knowledge/bim-dimensions-3d-4d-5d-6d-bim-explained>

<https://www.slideshare.net/ahmedalrakhaw/bim-overview-64688233>

Slide 11 Resources:

<http://allaboutbim.blogspot.com/>

[http://www.academia.edu/11308485/BIM - Its Role and Importance in the AEC Industry](http://www.academia.edu/11308485/BIM_-_Its_Role_and_Importance_in_the_AEC_Industry)

<https://medium.com/studiotmd/what-is-bim-and-why-do-you-need-it-c4445eed7941>

Slide 13 Resources:

<https://products.office.com/en-us/sharepoint/collaboration>

<https://www.dropbox.com/business>

<https://onedrive.live.com/about/en-us/>

<https://www.google.com/drive/>

<https://trove.com/> (formerly Copy)

<https://mega.nz>

<https://www.pcloud.com/>

<https://www.box.com/>

<https://aws.amazon.com/storagegateway/?hp=tile&so-exp=below>

<https://tresorit.com/>

<https://spideroak.com/>

<https://www.jottacloud.com/en/>

<https://jumpshare.com/>

<https://www.opendrive.com/>

<https://www.syncplicity.com/>

<https://a360.autodesk.com/>

Slide 15 Resources:

<http://bimforum.org/lod/>

Slide 17/18 Resources:

<https://www.aiacontracts.org/>

<http://bim-level2.org/>

Slide 20 Resources:

<http://bim.psu.edu/>

Slide 22 Resources:

<https://academy.autodesk.com/curriculum/bim-integrated-project-delivery>
<http://busybeetraveler.blogspot.com/2014/12/project-phases-of-ipd.html>
https://en.wikipedia.org/wiki/Integrated_project_delivery

Slides 24-26 Resources:

https://en.wikipedia.org/wiki/Industry_Foundation_Classes
<https://www.thenbs.com/knowledge/what-is-ifc>
<http://www.buildingsmart-tech.org/specifications/ifc-overview>

BIM Applications:

<https://www.autodesk.com/>
<https://www.bentley.com/en/solutions/industries/buildings-and-facilities>
<http://www.microgds.co.uk/>
<http://www.graphisoft.com/archicad/>
<https://www.allplan.com/en/>

Structural Applications:

<https://www.graitec.com/>
<https://www.tekla.com/us>
<http://www.aveva.com/en/>
<http://www.rib-software.com/en/main/rib-solutions/ribtec.html>
<https://www.sofistik.com/>
<http://strucsoftsolutions.com/>
<https://intercad.com.au/>
<https://www.dlubal.com/en-US>

Building Services:

<http://www.granlund.fi/en/services/design/information-modelling/>
<http://www.dds-cad.net/>
<http://www.lawrencebuilding.com/>
https://communities.bentley.com/products/electrical_instrumentation/

Viewers:

<https://www.autodesk.com/>
<http://www.octaga.com/>
<http://www.dds-cad.net/>
<http://rdf.bg/ifc-viewer.html>

Database:

<https://epmtechnology.com/>
<https://www.oracle.com/index.html>
<http://www.secom.net/>
<http://www.eurostep.com/>
<http://www.drofus.no/en/product.html>

Dictionary:

<https://www.thenbs.com/knowledge/the-buildingsmart-data-dictionary>
<http://www.buildingsmart-tech.org/implementation/get-started/ifc-toolboxes>
https://www.nibs.org/?page=bsa_cobie

Building Codes:

https://www.researchgate.net/figure/280598933_fig3_Figure-4-FORNAX-objects-bridge-the-gap-between-IFC-and-the-code-compliance-requirements

<https://energy.gov/sites/prod/files/2015/04/f22/BldgInteropContext%20-%20PNNL%20Widergren.pdf>

<https://www.solibri.com/>

<http://www.dtic.mil/dtic/tr/fulltext/u2/a475289.pdf>

Slide 28 Resources:

https://www.nibs.org/?page=bsa_cobie

<http://www.wbdg.org/resources/construction-operations-building-information-exchange-cobie>

Roles and Responsibilities

Slides 32-57 Resources:

http://aucache.autodesk.com/au2011/sessions/4436/class_handouts/v1_DL4436_Joseph_BIM_Titles_Job_Descriptions_JJ.pdf

<http://www.bimuserday.com/wp-content/uploads/3rd-Qatar-BIM-User-Day-Sharaf-Abdulkader.pdf>

<http://blog.hagerman.com/2014/03/18/bim-for-project-managers-workflows-roles-and-deliverables/>

<https://www.augi.com/articles/detail/how-to-structure-a-bim-team>

<http://www.bimframework.info/competency/>

http://www.irbnet.de/daten/iconda/CIB_DC27698.pdf

<http://www.bimmanager.com/bim-manager-job-description/>

<http://www.columbiacc.com/cc/assets/File/BIM%20Coord-VDC%20Job%20Posting.pdf>

<http://www.bimplus.co.uk/management/bim-manager-role-evolving/>

Salaries

Slide 59 Resources:

<https://www.augi.com/uploads/surveys/SalarySurvey2016.pdf>

<https://www.augi.com/uploads/surveys/SalarySurvey2015.pdf>

<https://www.augi.com/surveys-polls/salary/survey-archives>

<https://www.payscale.com/>

<https://www.glassdoor.com/index.htm>

<https://www.indeed.com/salaries?from=headercmplink&attributionid=homepage>

Integrating with Management & Non Bim

Slides 61-68 Resources:

All of this section was taken from personal experience and from:

<https://www.amazon.com/BIM-Managers-Handbook-Professionals-Architecture-ebook/dp/B01DNVSR34>

Standards and Templates

Slides 70-71 Resources:

<http://bimtheworld.wixsite.com/hydroglyphic/single-post/2014/08/06/Revit-Standards-Getting-Started>
<https://www.nationalbimstandard.org/>
<http://www.nibs.org/?page=bsa>
<http://cms.ashrae.biz/bim/>
<http://bim.psu.edu/Project/resources/default.aspx>
<http://www.iu.edu/~vpcpf/consultant-contractor/standards/bim-standards.shtml>
<http://www.hkibim.org/?p=1937>
<https://www.cfm.va.gov/til/bim/BIMGuide/lifecycle.htm>
http://www.construction-innovation.info/images/pdfs/BIM_Guidelines_Book_191109_lores.pdf
<http://www.anzrs.org/blog/>
<https://www.gsa.gov/real-estate/design-construction/3d4d-building-information-modeling/bim-guides>
<https://aecuk.wordpress.com/>
<https://shop.bsigroup.com/>
<http://www.panynj-cadstandards.com/>
<https://www.wbdg.org/building-information-modeling-bim>
<http://www1.nyc.gov/site/ddc/resources/publications.page#guides>

Training

Slide 77 Resources:

<https://www.e-zigurat.com/bim/>
<https://www.agc.org/learn/education-training/building-information-modeling-education-program>
<http://www.rics.org/us/training-events/online-academy---americas/distance-learning/certificate-in-bim-implementation-and-management/online/>
<http://bimforum.org/events/45/certificate-of-management%E2%80%94building-information-modeling-assessment/>
<https://pe.gatech.edu/courses/building-information-modeling-bim-for-construction-management>
<https://www.udemy.com/courses/search/?q=BIM&src=ukw>
<https://www.bsigroup.com/en-GB/Building-Information-Modelling-BIM/>
<https://certiport.pearsonvue.com/Certifications/Autodesk>

Slide 78 Resources:

<https://www.ascented.com/courseware-solutions/autodesk/courseware/overview>
<https://www.cadlearning.com/>
<https://www.imaginit.com/>
<http://www.eaglepoint.com/>
<https://www.lynda.com/>
<https://www.pluralsight.com/>
<https://knowledge.autodesk.com/community/screencast>
<https://www.flashbackrecorder.com/>
<https://products.office.com/en-us/sharepoint/collaboration>
<https://www.onenote.com/>
<https://evernote.com/>

Top Wiki Engines:

<https://www.mediawiki.org/wiki/MediaWiki>
<https://www.dokuwiki.org/dokuwiki>
<http://www.pmwiki.org/>
<http://wikkawiki.org/HomePage>
<http://twiki.org/>
<http://www.xwiki.org/xwiki/bin/view/Main/>
<https://success.mindtouch.com/>
<http://www.boltwire.com/>
<https://www.zoho.com/wiki/>
<http://www.wikia.com/Special:CreateNewWiki>

Tools of the Trade

Slides 80-86 Resources:

<https://apps.autodesk.com/en>
<http://dynamobim.org/>
<https://ctcexpresstools.com/>
<http://www.bimcollab.com/en/BCF-Manager/BCF-Manager>
<https://www.ideateinc.com/ideate-software2>
<https://github.com/eirannejad/pyRevit>
<http://sixtysecondrevit.com/>

Marketing BIM

Slides 88-95 Resources:

<https://www.bdcnetwork.com/8-steps-successful-bim-marketing-program>
<https://www.slideshare.net/BeckTechnology/bims-marketing-edgesmps-marketer>



[20 Traits of an Awesome CAD/BIM/Tech Manager](#)

[How to Create a Project Dashboard \[Webinar Replay\] - Arch Smarter](#)

["BIM" on SlideShare](#)

[2012 0418 SeaRUG - Design Visualization Features with Revit 2013 - YouTube](#)

[2013 0417 SeaRUG - Tips and Tricks to Make Your Drawings and Presentations Look Great - YouTube](#)

[2013 1120 SeaRUG - Good Content needs Great Organization - YouTube](#)

[6. How to ensure that training has been effective - ECApedia](#)
[74337bimdemystifiedextract.pdf \(application/pdf Object\)](#)
[All Things BIM: Standards](#)
[Andekan » Get a Quote for Revit Content](#)
[ARC262 Building Information Modeling Production](#)
[Autodesk Labs Autodesk Labs Graduates](#)
[Autodesk Showcase for Architecture and Interior Design - YouTube](#)
[Autodesk Software User Manuals Download - ManualsLib](#)
[Autodesk® Revit® Keynotes Made Simple: Adding Custom Keynotes to Your Construction Documents](#)
[b07015.pdf \(application/pdf Object\)](#)
[BIM Library | Accurate Partitions](#)
[BIM Manager](#)
[BIM Manager: Standards](#)
[BIM Managers](#)
[BIM ThinkSpace: Episode 17: Individual BIM Competency](#)
[BIMopedia - BIM Related Documents](#)
[BIMstop's BIM content library - Page 6 of 175 - BIMstop.com](#)
[Boost Your BIM - making Revit even better](#)
[Boost Your BIM - making Revit even better](#)
[Building Information Modeling: A Strategic Implementation Guide for ... - Dana K. Smith, Michael Tardif - Google Books](#)
[CAD \(and BIM\) Addict: BIM Standards & Guidelines](#)
[CAD ARCHITECT | Draw without Compromise](#)
[CAD Block Exchange Network - Free Online AutoCAD Block Library-](#)
[CAD Forum - Library of free blocks - 'gym equipment' \(p.2\)](#)
[CADhatch | Free AutoCAD Zig-zag Hatch Patterns](#)
[CASE News: Get in on the CASE Revit Add-ins](#)
[Cleaning Up AutoCAD Drawings | AUGI](#)
[CSI MasterFormat™ Division List](#)
[Examples of commonly used formulas - Excel - Office.com](#)
[Formulas for "Everyday" Use - WikiHelp](#)
[GrabCAD](#)
[It is Alive in the Lab](#)

[Levels - WikiHelp](#)

[Library | AUGI](#)

[Manufacturer Specifications and Component Families for Revit | ARCxl](#)

[Revit API: Delete LinePatterns – MattBeNimble](#)

[Revit Elemental](#)

[Revit Families – Endless combinations with nested families and the Family Type parameter | What's the Word on BIM?](#)

[Revit for Interior Design Class](#)

[Revit Formulas for "everyday" usage](#)

[Revit OpEd](#)

[Revit Rants](#)

[Revit Templateer](#)

[Revit tutorial and tips | CAD Notes](#)

[Revit Visualization Experimentation | ArchDesignLabs](#)

[RevitCity.com](#)

[Search - 3D Warehouse](#)

[Software tutorials & training | lynda.com](#)

[The Interior Side of Revit: Documenting Interior Design Projects with Autodesk® Revit®](#)

[The Revit Jedi: Starting Views](#)

[Unit 4 – Multidisciplinary Coordination | BIM Curriculum](#)

[VA-BIM-Guide.pdf \(application/pdf Object\)](#)

[What Revit Wants: Baking your own free RPC content and adding it to Revit 2013](#)

[CAD-1 Presents - Design Review for Revit - YouTube](#)

[CGS plus USA](#)

[Revittize: Model QC QA](#)

[Listary - Fabulous search utility | Keep files at your fingertips](#)

[Revit Office](#)

[Revit Tutorials](#)

[practical BIM: What makes a good Office BIM Manager?](#)