

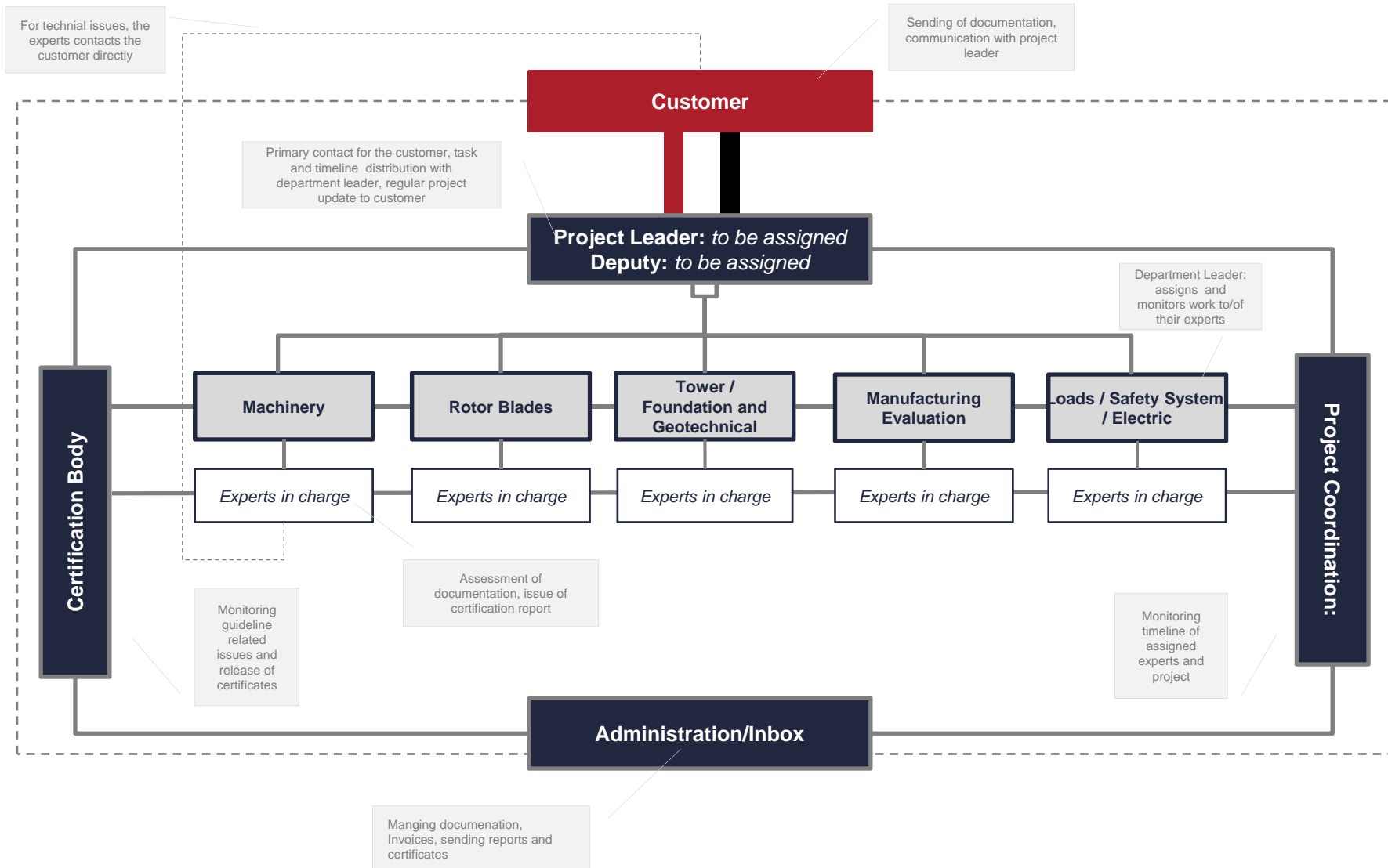


Certification Process

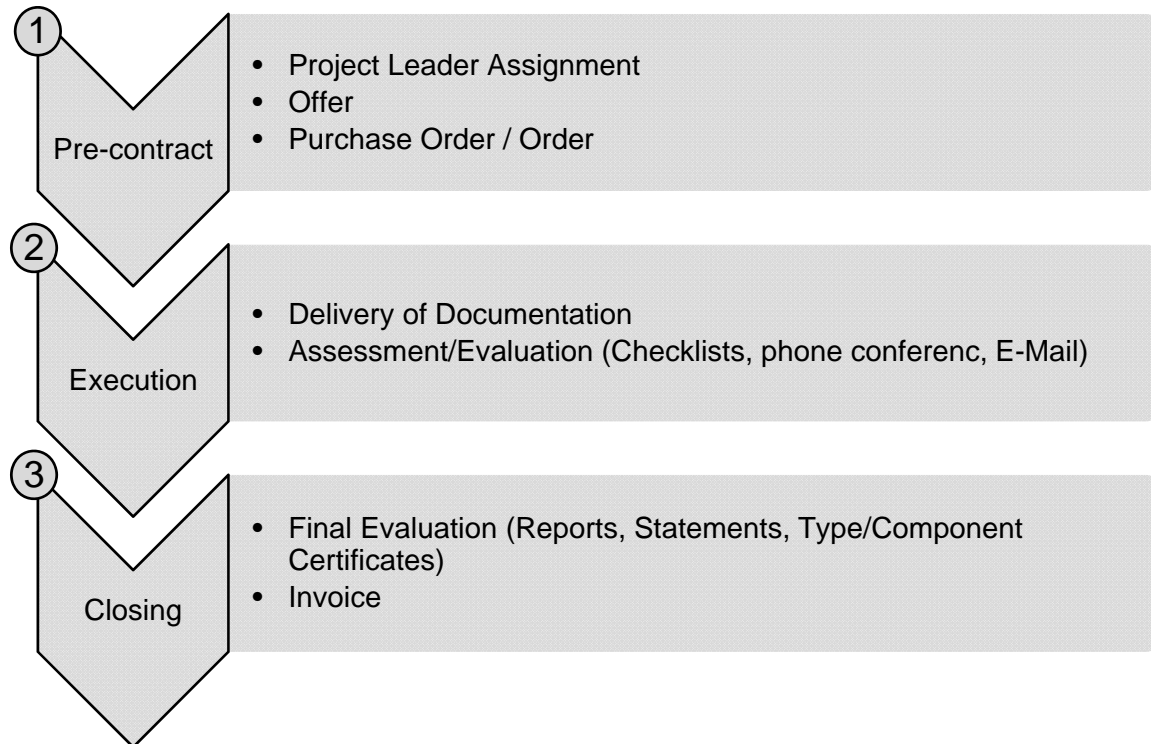


a UL company

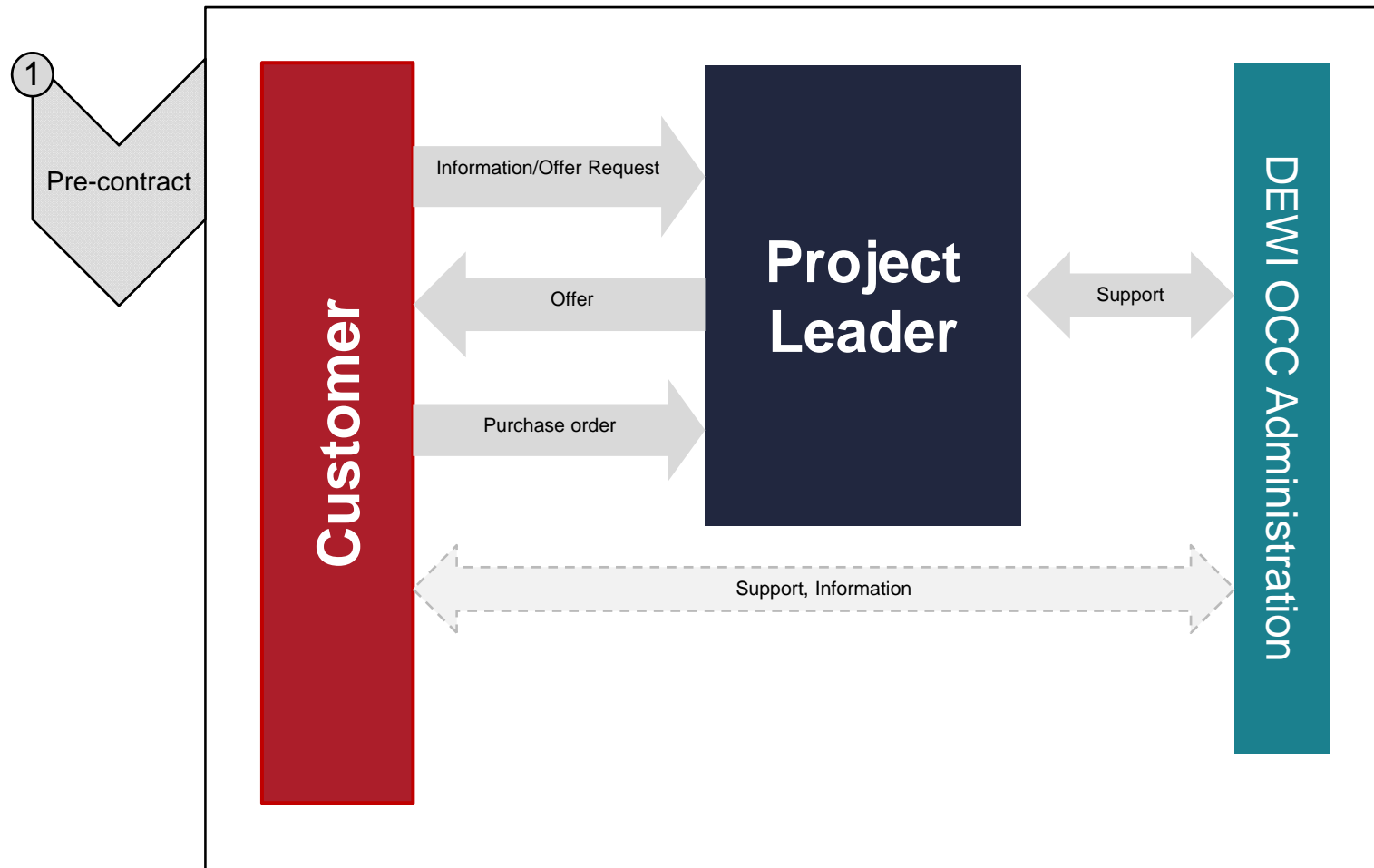
CERTIFICATION PROCESS: PROJECT TEAM



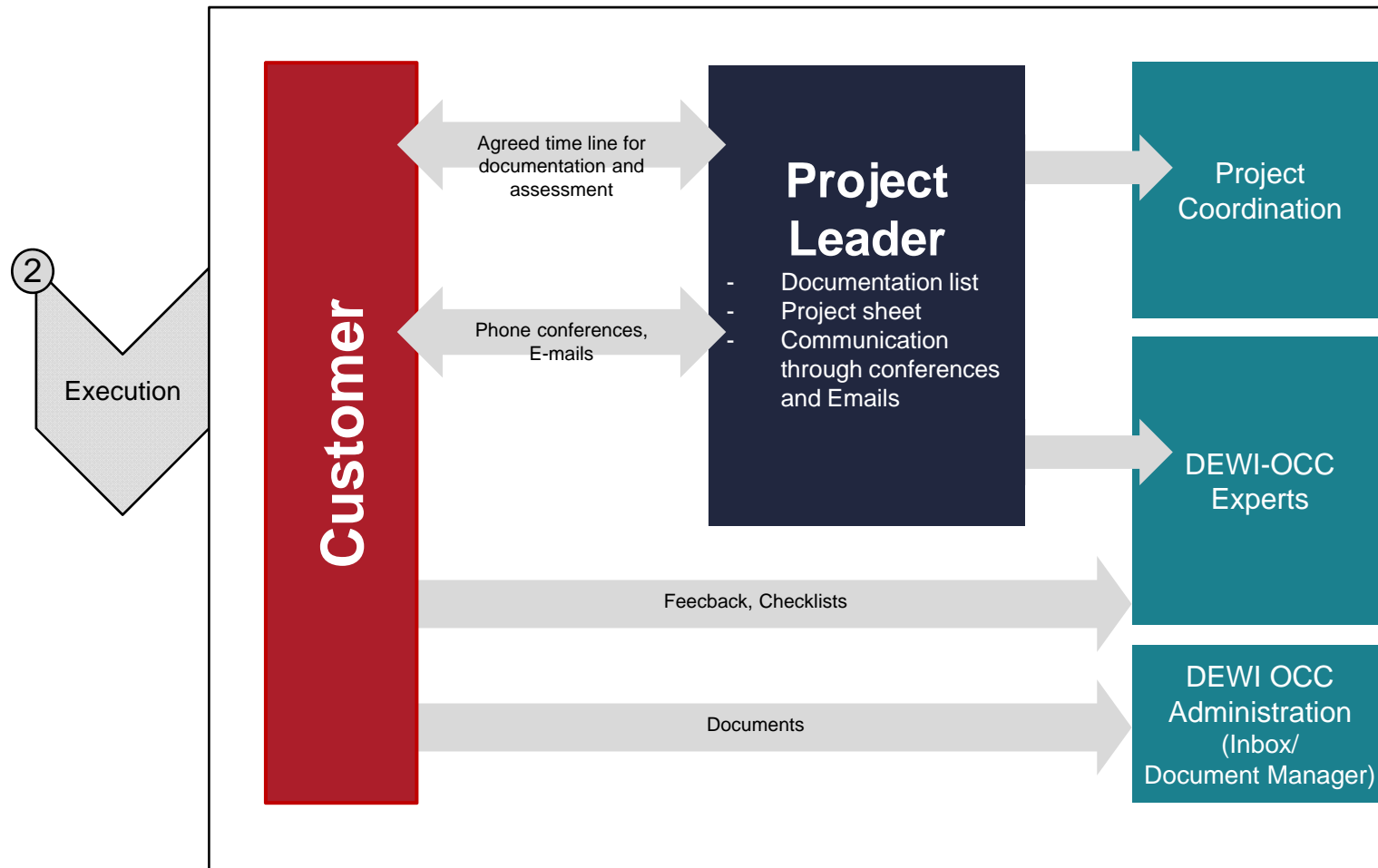
CERTIFICATION PROCESS: ADMINISTRATIVE



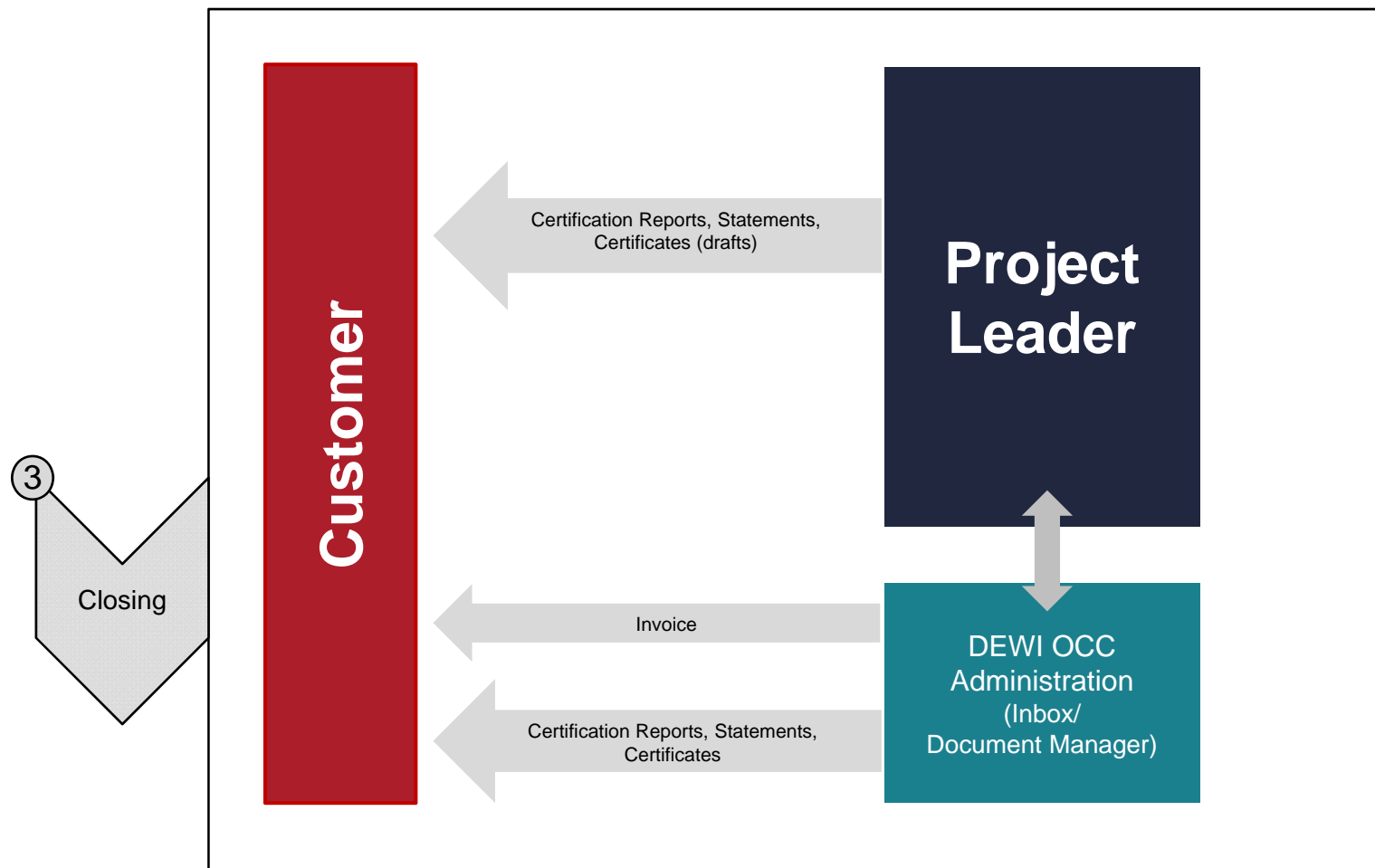
CERTIFICATION PROCESS: ADMINISTRATIVE



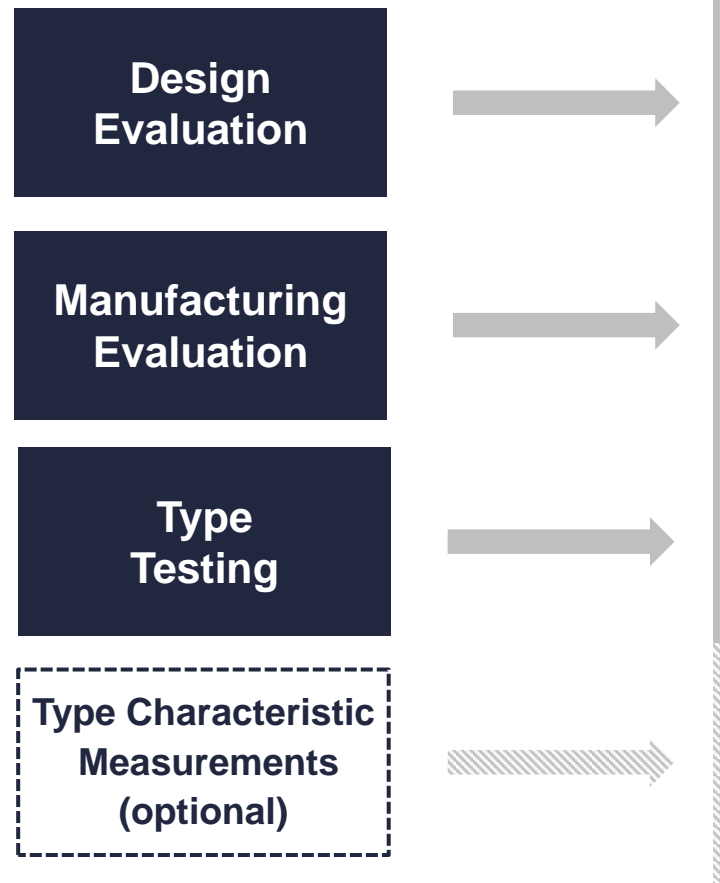
CERTIFICATION PROCESS: ADMINISTRATIVE



CERTIFICATION PROCESS: ADMINISTRATIVE



CERTIFICATION PROCESS: TECHNICAL



DEWI-OCC Offshore and
Certification Centre GmbH
Am Seedeich 9, D-27472 Cuxhaven

Type Certificate
TC – NNNNNN, Rev. 0

This certificate is issued to

Company Name
Street
City, Zip Code
Country

for the wind turbine

Name of wind turbine

This certificate attests compliance with

IEC 61400-1 "Wind turbines - Part 1: Design requirements", Edition 3.0, 2005-08
- WT Class IA

concerning the design and manufacture. It is based on the following reference documents:

STC – NNNNNN	Design Evaluation Conformity Statement	DEWI-OCC, Rev. 0, Date
STC – NNNNNN	Manufacturing Conformity Statement	DEWI-OCC, Rev. 0, Date
STC – NNNNNN	Type Test Conformity Statement	DEWI-OCC, Rev. 0, Date
STC – NNNNNN	Type Characteristics Conformity Statement	DEWI-OCC, Rev. 0, Date
RNNNNN-12	Final Evaluation Report	DEWI-OCC, Rev. 0, Date

The conformity evaluation was carried out according to IEC 61400-22, "Wind turbines - Part 22: Conformity testing and certification", Edition 1.0, 2010-05.

Changes in the system design or the manufacturer's quality system are to be approved by DEWI-OCC. Without approval, this certificate loses its validity.

The wind turbine is specified in the annex of the following conformity statement.

STC – NNNNNN Design Evaluation Conformity Statement DEWI-OCC, Rev. 0, Date

This type certificate is valid until: Date

Cuxhaven, Date

Underwriter
Position of Underwriter
Certification Body for Wind Turbines

Certification Body for products
accredited by DAKKS according to
DIN EN 45011/ISO Guide 65.
The accreditation is valid for the
fields of certification listed in the
accreditation certificate.

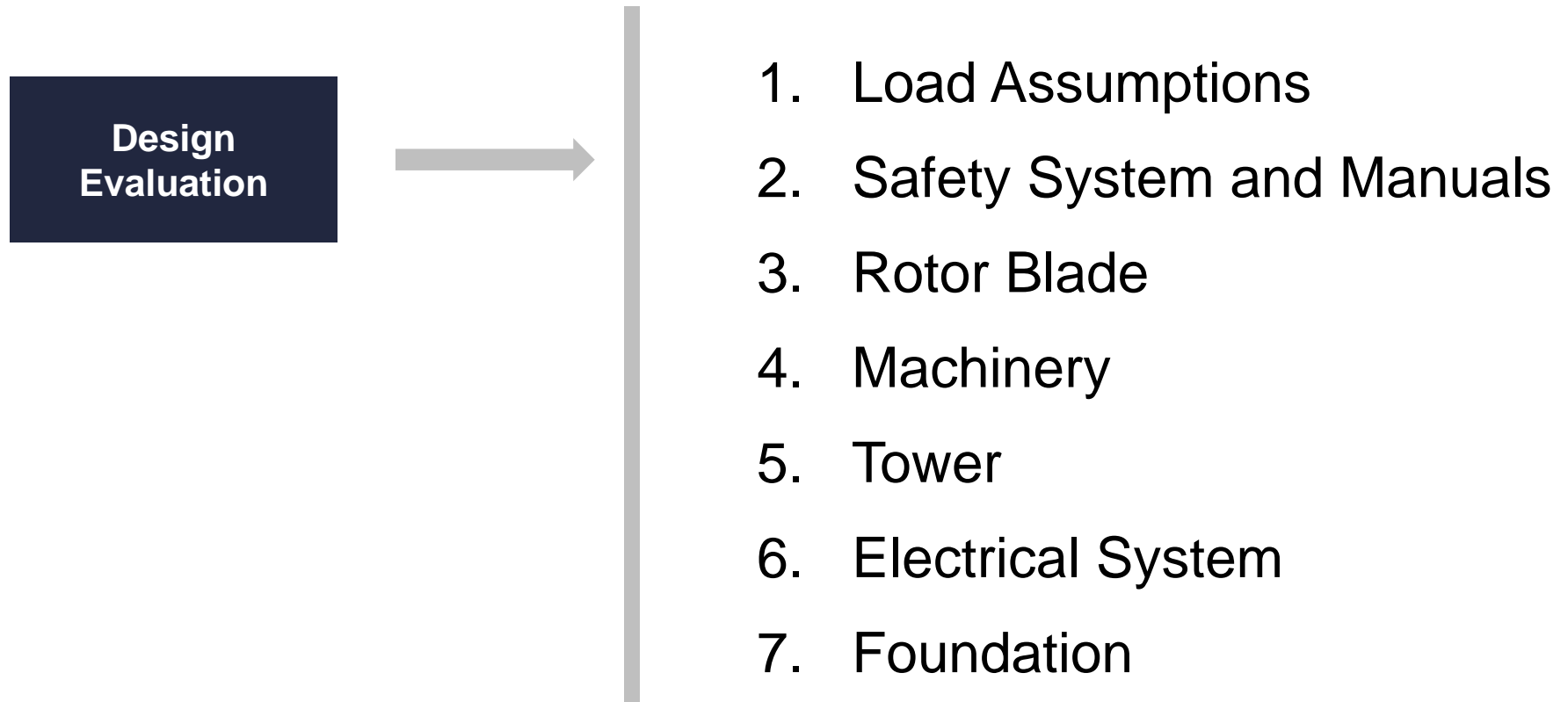
DAKKS
Deutsche
Akkreditierungsstelle
D-ZE-11326-01-00

37-OP-F0901, Issue 1.0

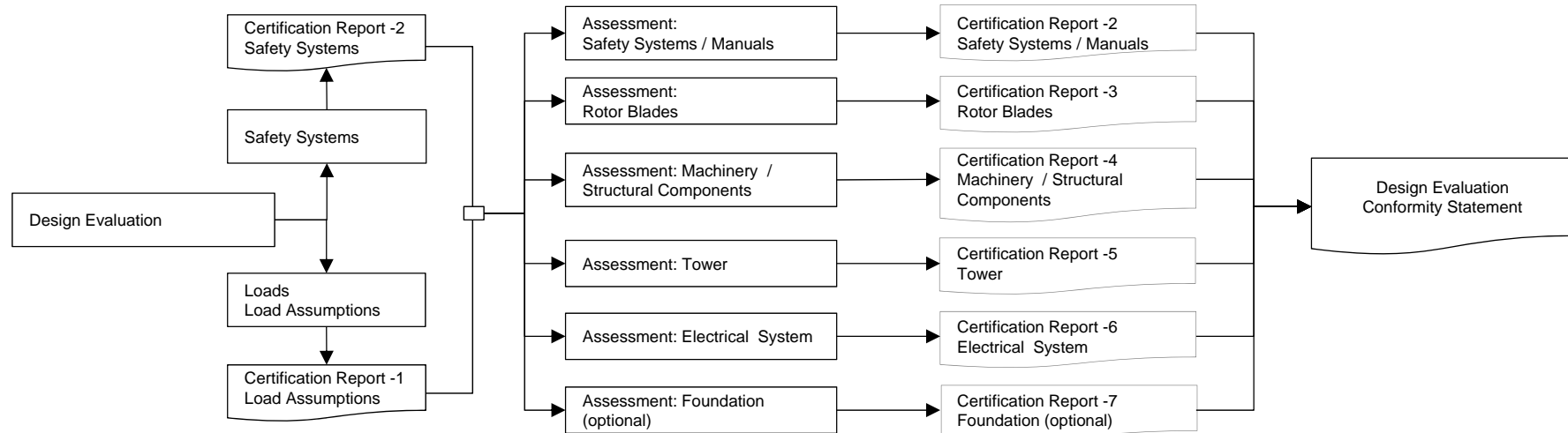
a UL company

a UL company

CERTIFICATION PROCESS: TECHNICAL



CERTIFICATION PROCESS: TECHNICAL



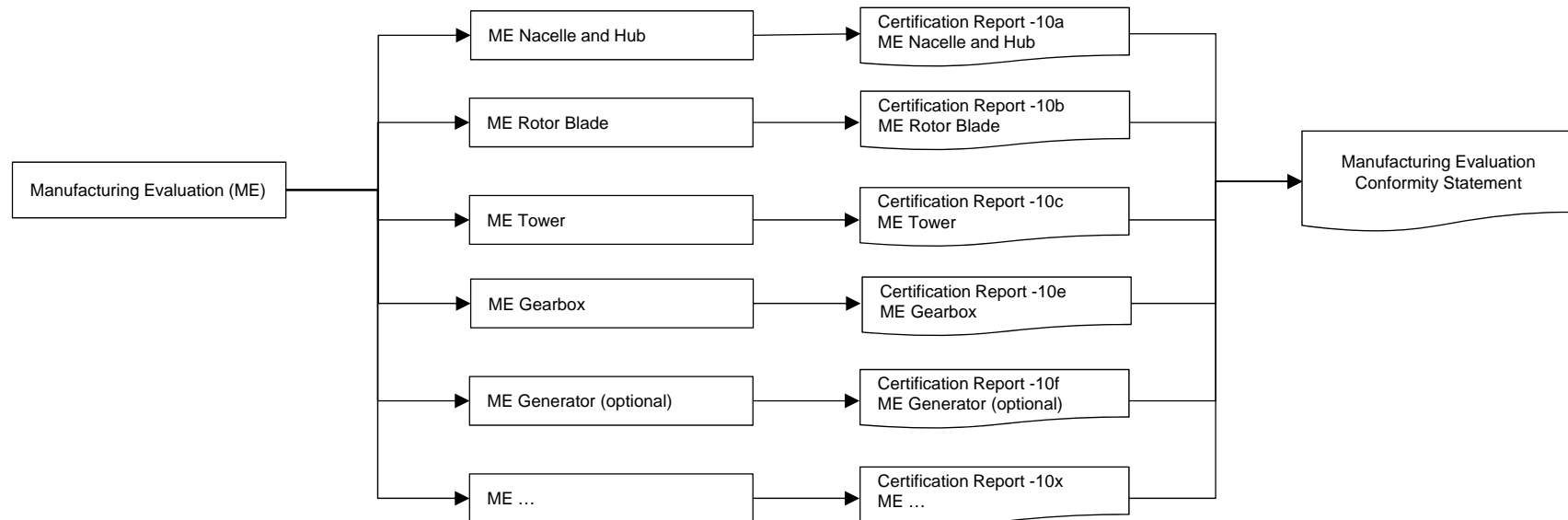
CERTIFICATION PROCESS: TECHNICAL

**Manufacturing
Evaluation**

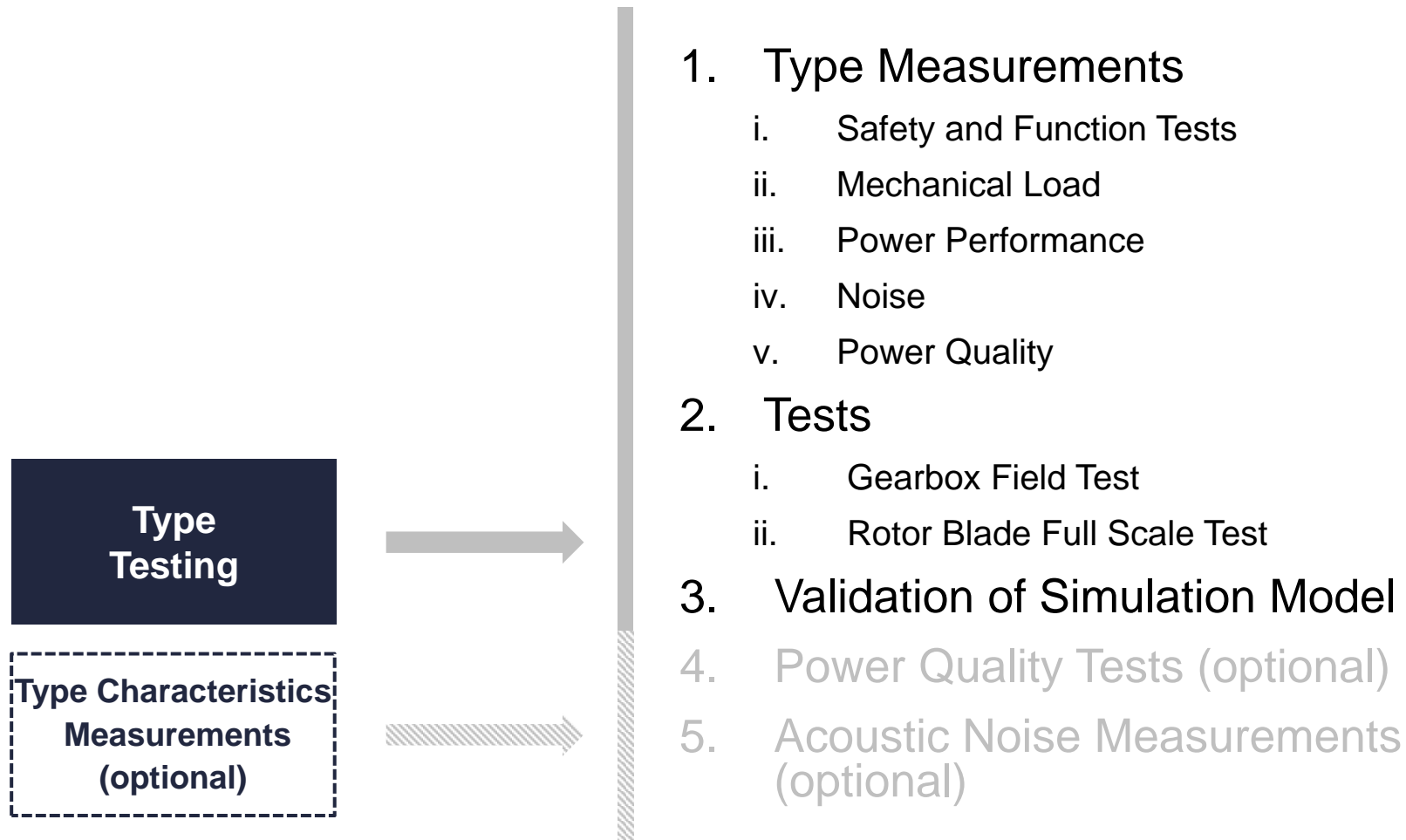


1. Nacelle and Hub
2. Rotor Blade
3. Tower
4. Gearbox
5. ...

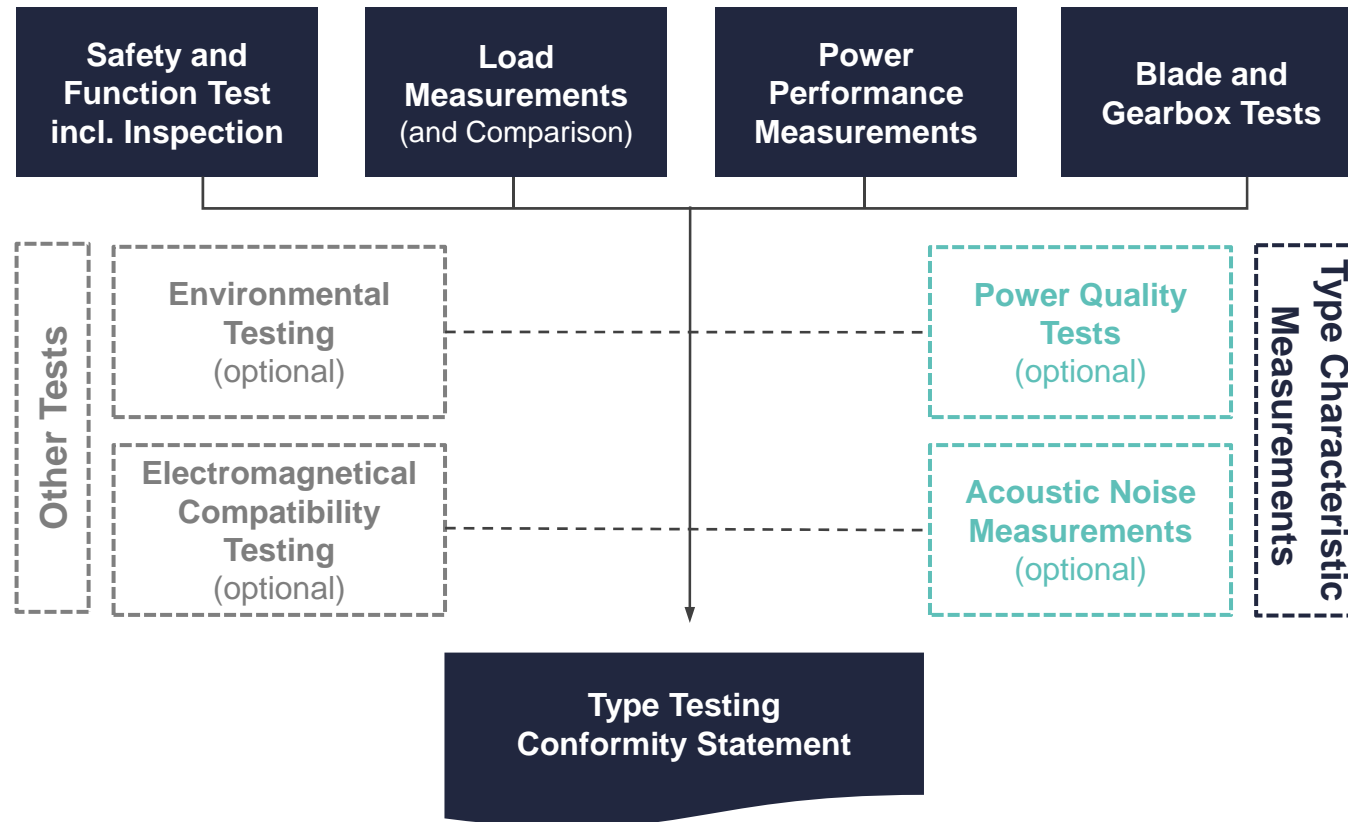
CERTIFICATION PROCESS: TECHNICAL



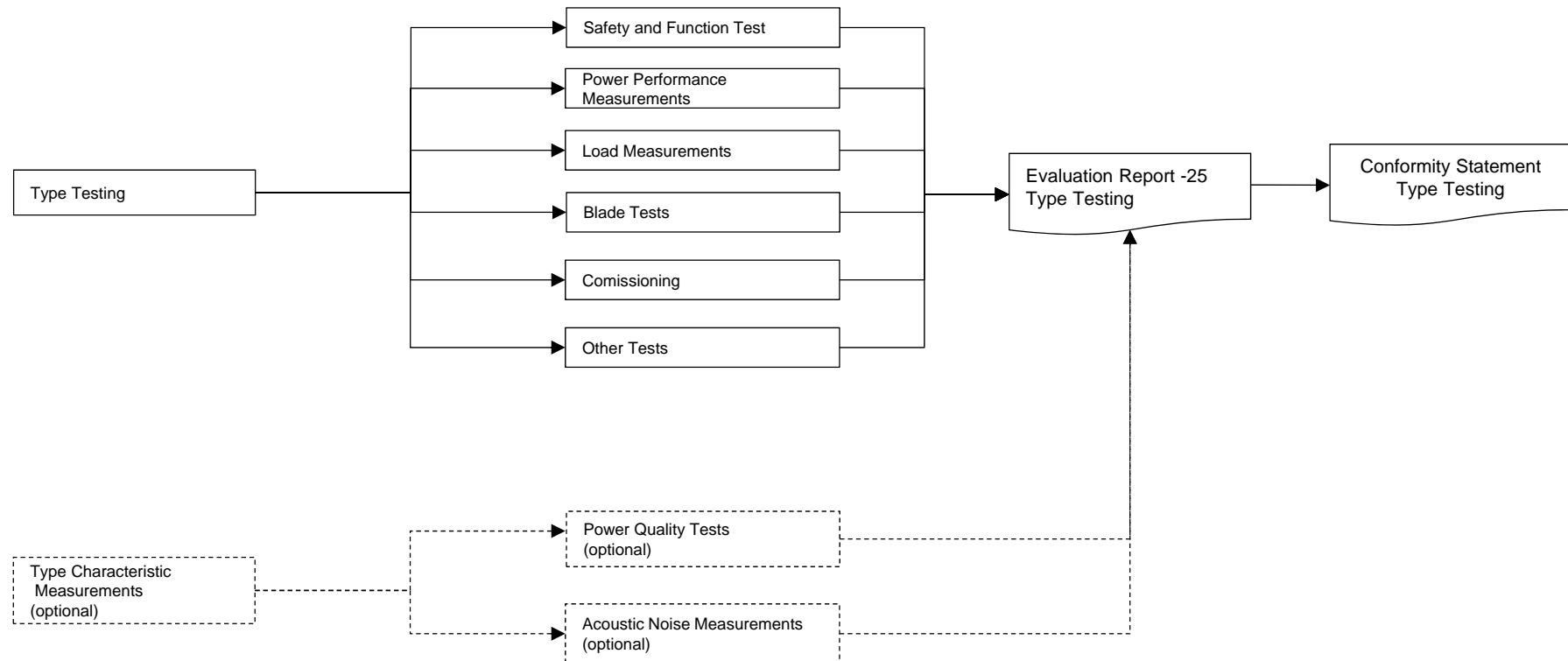
CERTIFICATION PROCESS: TECHNICAL



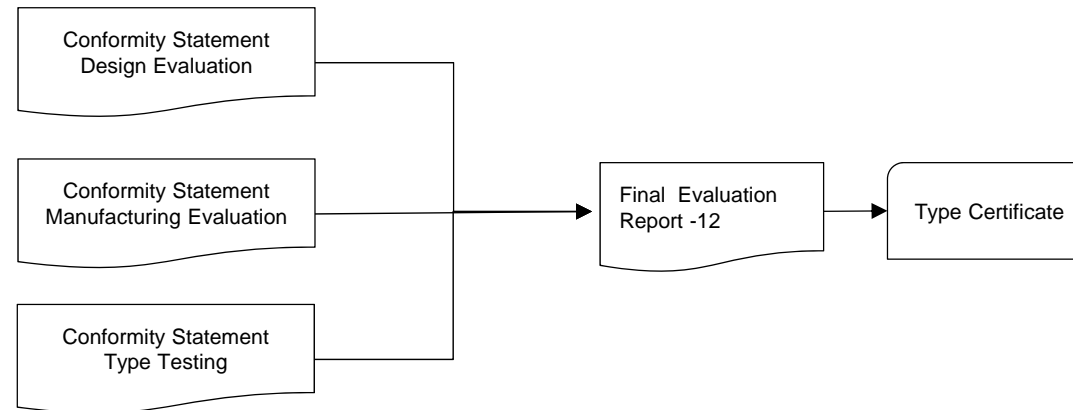
CERTIFICATION PROCESS: TECHNICAL



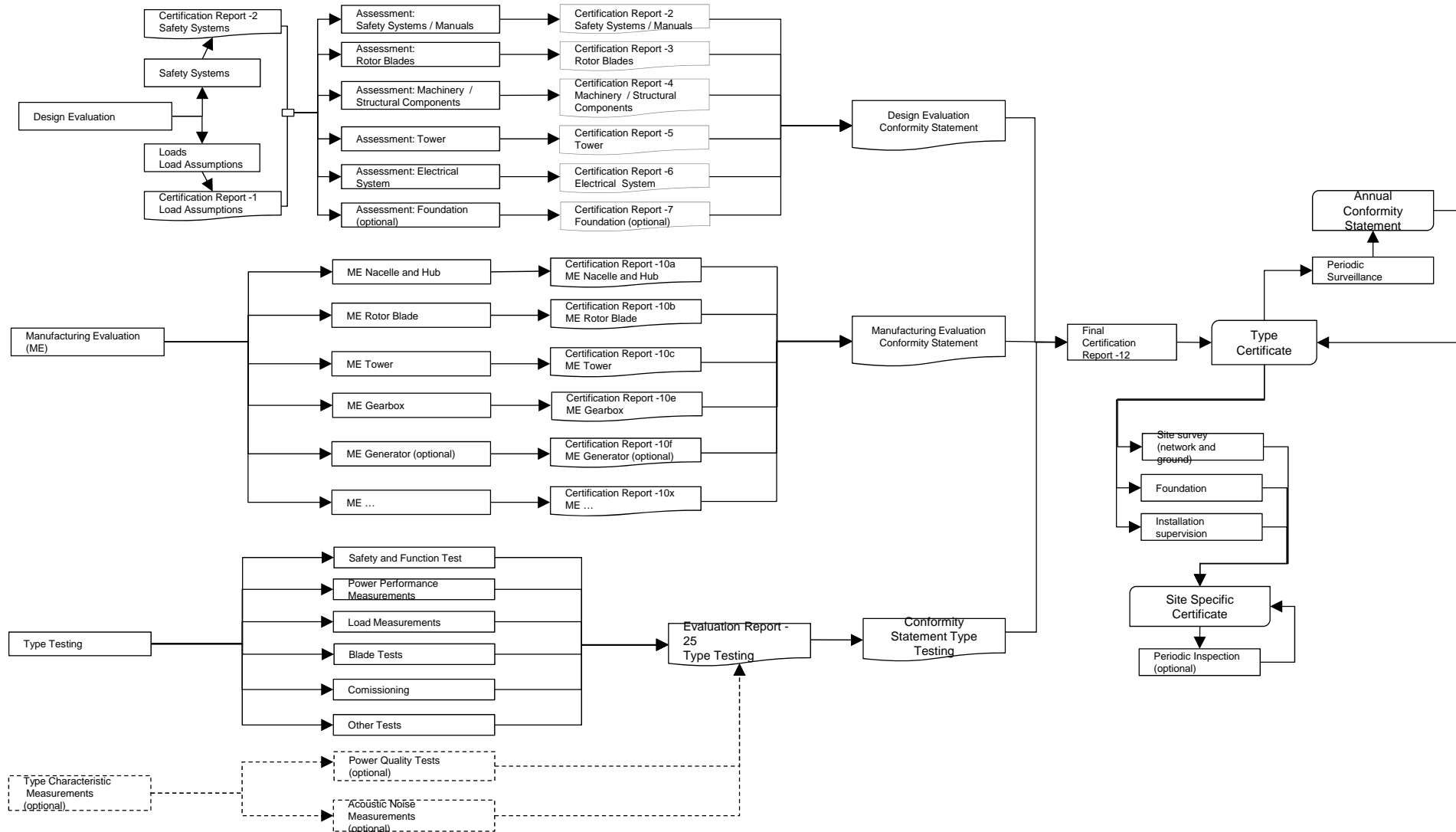
CERTIFICATION PROCESS: TECHNICAL



CERTIFICATION PROCESS: TECHNICAL



CERTIFICATION PROCESS: TECHNICAL



CERTIFICATION SCHEMES



Type Certification

Onshore

- IEC WT01
- IEC 61400-22
- GL 2003/2004
- GL 2010
- DIBt 2004

Offshore

- GL 2005
- GL 2012

Project Certification

Onshore

- IEC WT01
- IEC 61400-22
- GL 2003/2004
- GL 2010
- DEWI OCC 37-OP-S0852

Offshore

- BSH Standards
- DNV-OS-J101, 2007/2009
- DEWI OCC 37-OP-S0852

GL

- Type Certificate
 - STC DA
 - STC IPE
 - STC PT
- Project Certificate

IEC

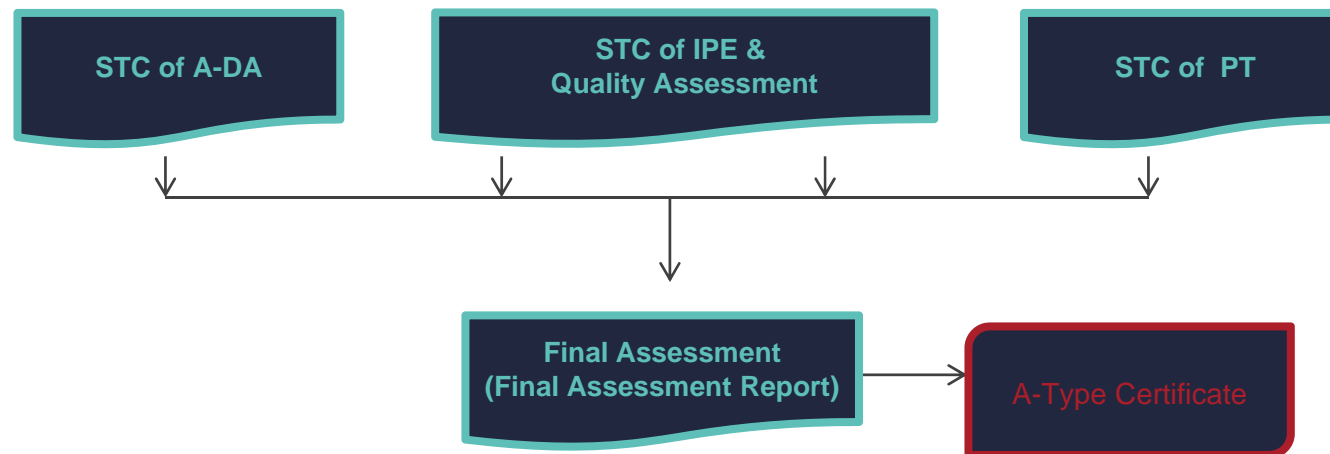
- Type Certification
 - Design
 - ME
 - TT
- Project Certificate

CERTIFICATION SCHEMES: GL



Type Certification

(GL 2003/2004 and/or GL 2010)



Source: GL 2010, Guideline for the Certification of Wind Turbines, Fig. 1.2.1 Elements of the Type Certificate, Chapter 1, page 4.

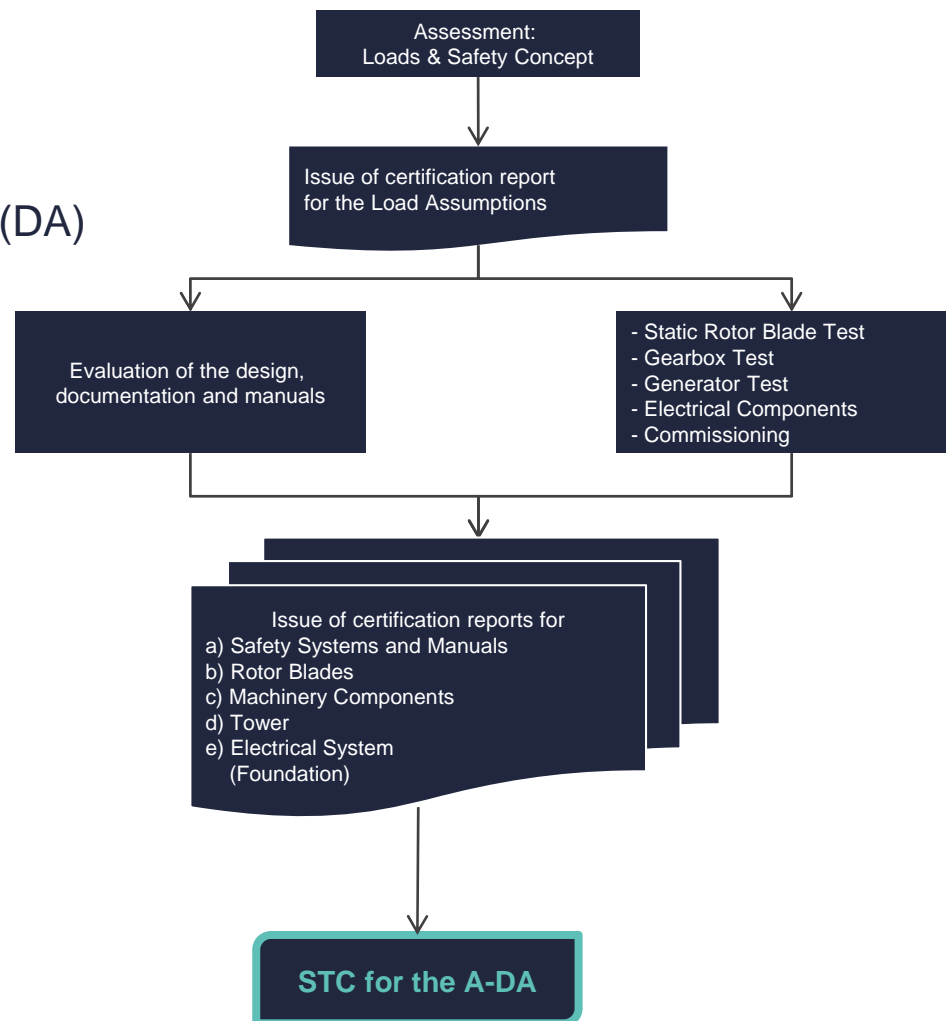
CERTIFICATION SCHEMES: GL



Type Certification

(GL 2003/2004 and/or GL 2010)

STC for the A-Design Assessment (DA)



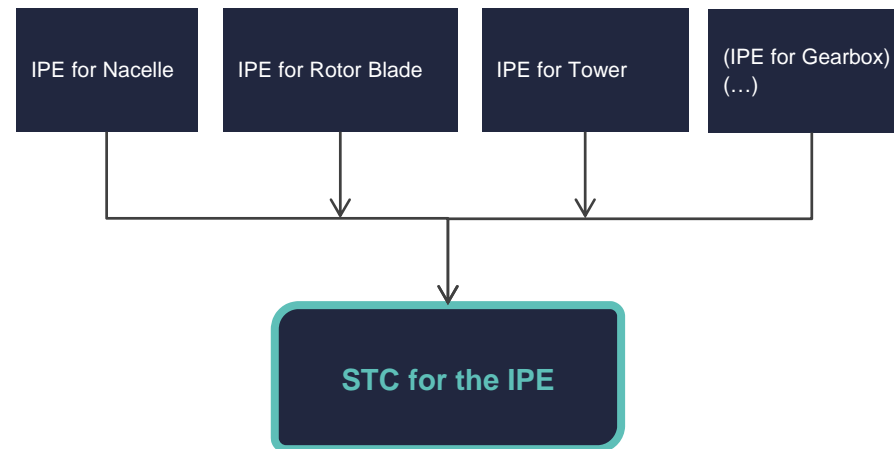
CERTIFICATION SCHEMES: GL



Type Certification

(GL 2003/2004 and/or GL 2010)

STC for the Implementation of design related requirements for production and erection (IPE)



Source: GL2010, Guideline for the Certification of Wind Turbines, 1.2.2.5 Implementation of the design-related requirements in Production and Erection (IPE), Chapter 1, page 7-9.

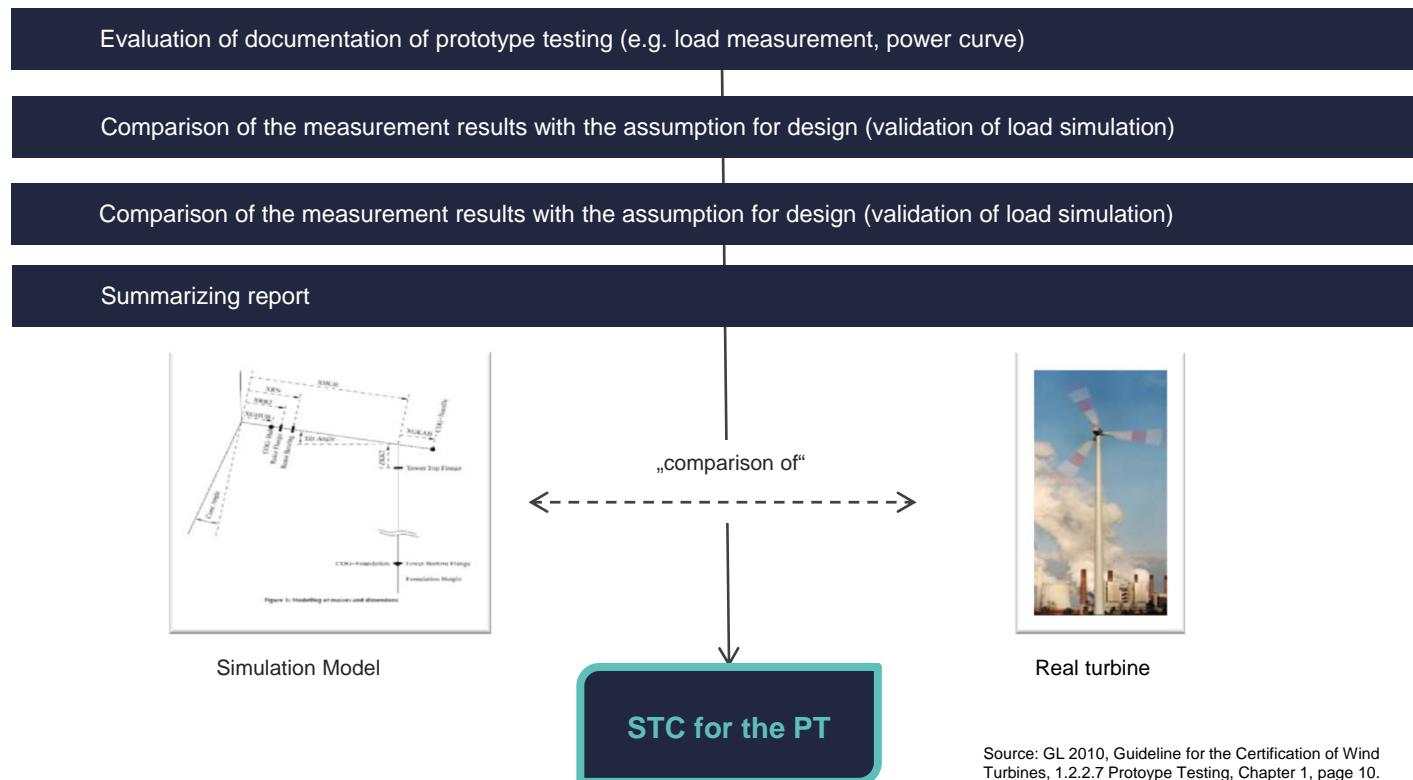
CERTIFICATION SCHEMES: GL



Type Certification

(GL 2003/2004 and/or GL 2010)

STC for the Prototype Testing (PT)

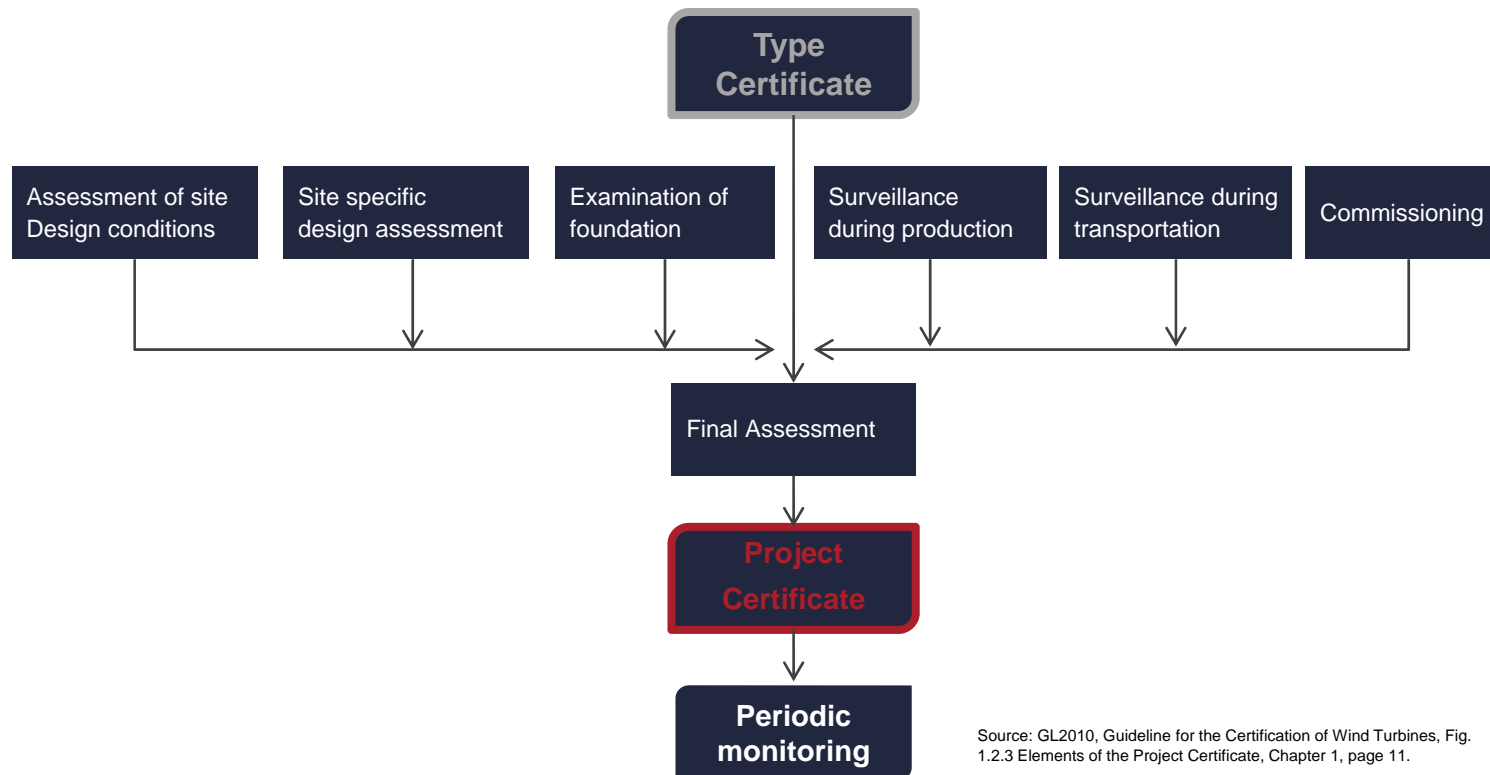


Source: GL 2010, Guideline for the Certification of Wind Turbines, 1.2.2.7 Prototype Testing, Chapter 1, page 10.

CERTIFICATION SCHEMES: GL



Project Certification (GL 2003/2004 and/or GL 2010)

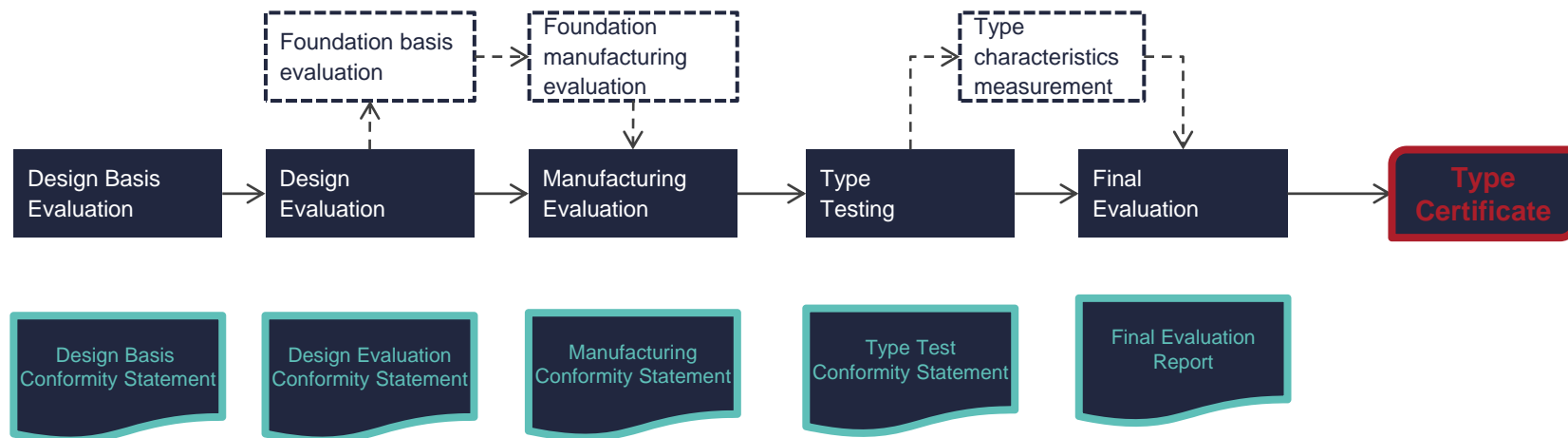


Source: GL2010, Guideline for the Certification of Wind Turbines, Fig. 1.2.3 Elements of the Project Certificate, Chapter 1, page 11.

CERTIFICATION SCHEMES: IEC



Type Certification (IEC WT 01 or IEC 61400-22)

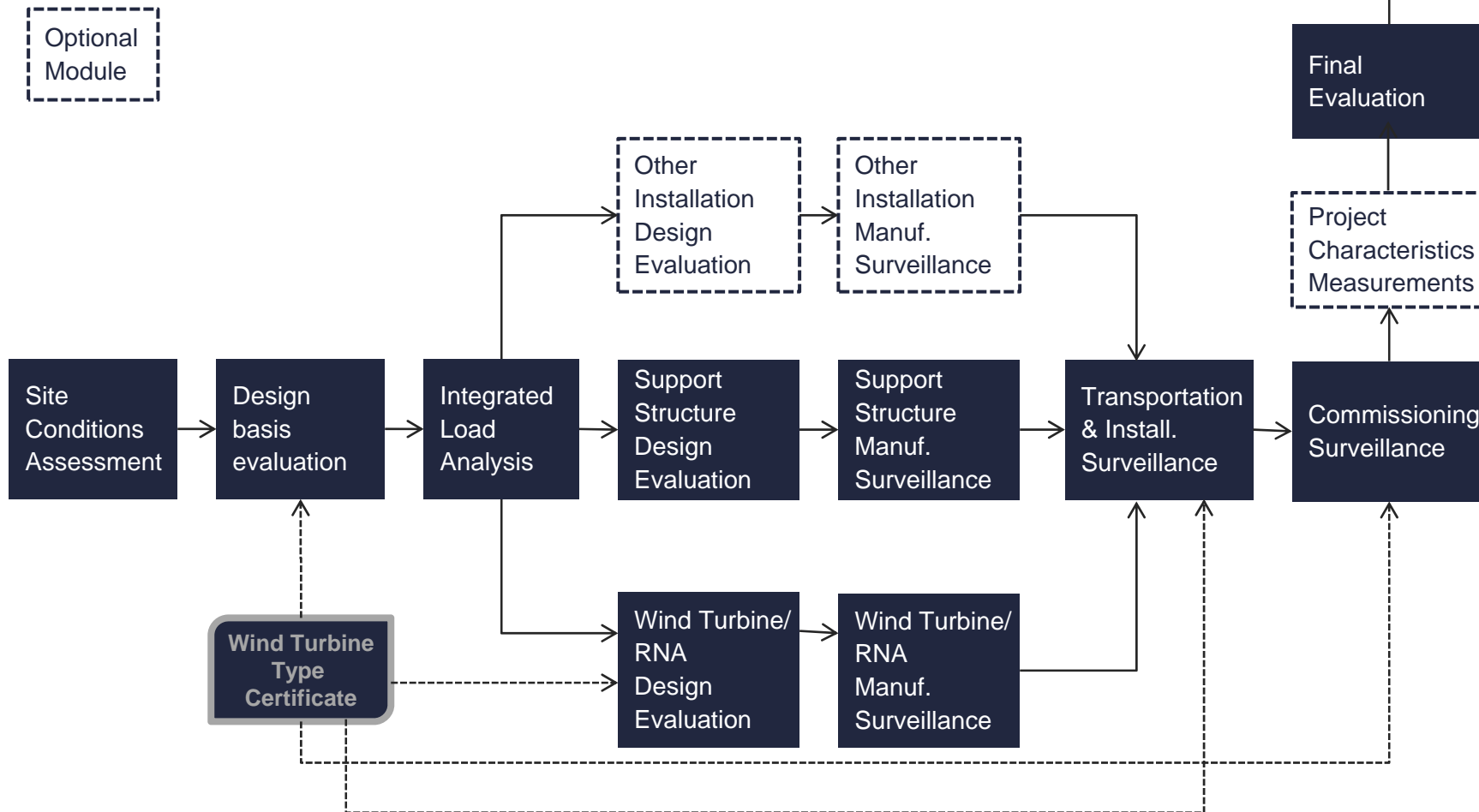


Optional
Module

Source: IEC 61400-22, Wind turbines – Part 22: Conformity testing and certification, Fig. 1 Modules of type certification, page 19.

CERTIFICATION SCHEMES: IEC

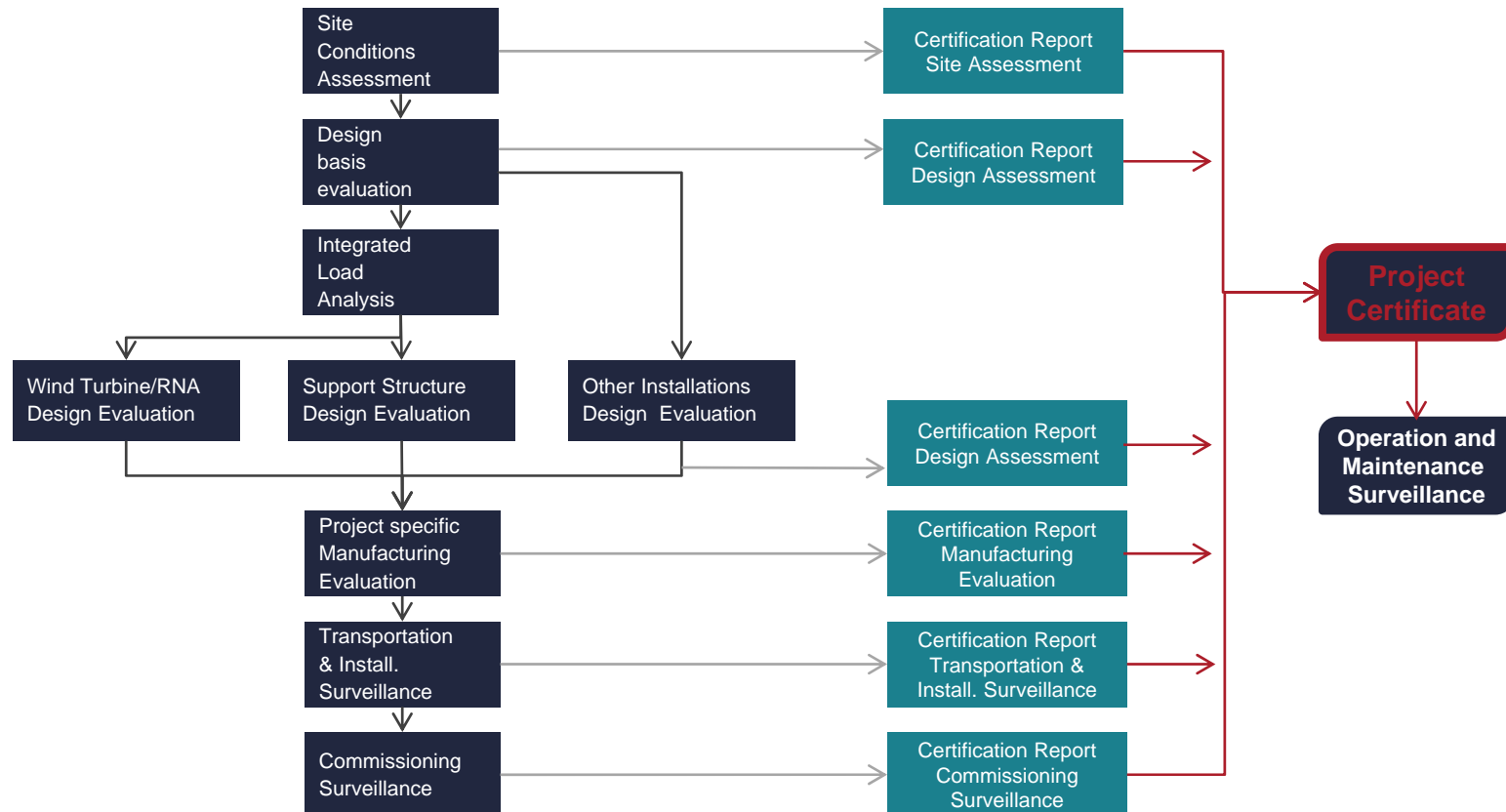
Project Certification (IEC WT 01 or IEC 61400-22)



CERTIFICATION SCHEMES: IEC

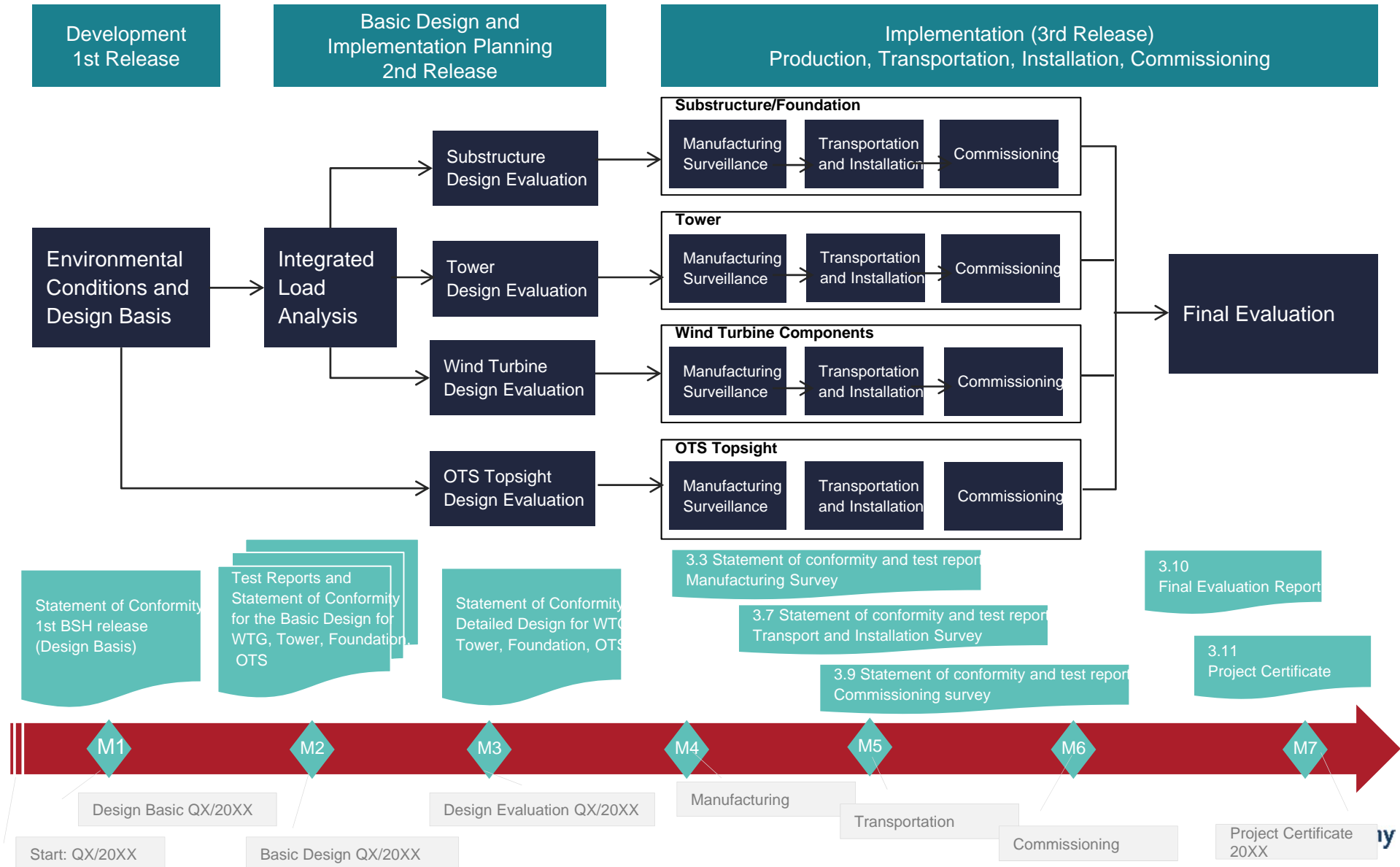


Project Certification DEWI-OCC 37-OP-S0852



CERTIFICATION SCHEMES

Project Certification (BSH)





Introduction of DEWI-OCC

A Global Certification Provider serving the Wind Energy Industry



a UL company