

Vergleichbarkeit und Anerkennungsmöglichkeit normaler/erweiterter Erste-Hilfe-Kurse von DGUV und GWO

Comparison and mutual Acceptance of training standards for basic/enhanced first aid of DGUV and GWO

Dr. Gerhard Kraus – Mitglied Arbeitsgruppen GWO and DGUV member working groups of GWO and DGUV

Personal Introduction and Fields of Activities

Gerhard Kraus, MD, PhD

Specialist in occupational and environmental medicine

Previous BGETEM, dept. prevention head of field occupational medicine

Prior Member of Department First Aid (DGUV Fachbereich Erste Hilfe)

Head of prior project DGUV REH-Offshore (Enhanced First Aid in Offshore Wind) Current review process and revision to "Ersthelfer Windenergie"

Member of working groups GWO basic and enhanced first aid (BST, EFA) current review process





Abbreviations / Explanations

DGUV - "Deutsche Gesetzliche Unfallversicherung"

- german statutory accident insurance
- allowed by law to set national rules and standards

GWO - "*Global Wind Organisation*"

- a non-profit international body founded by leading wind turbine manufacturers and operators

DGUV

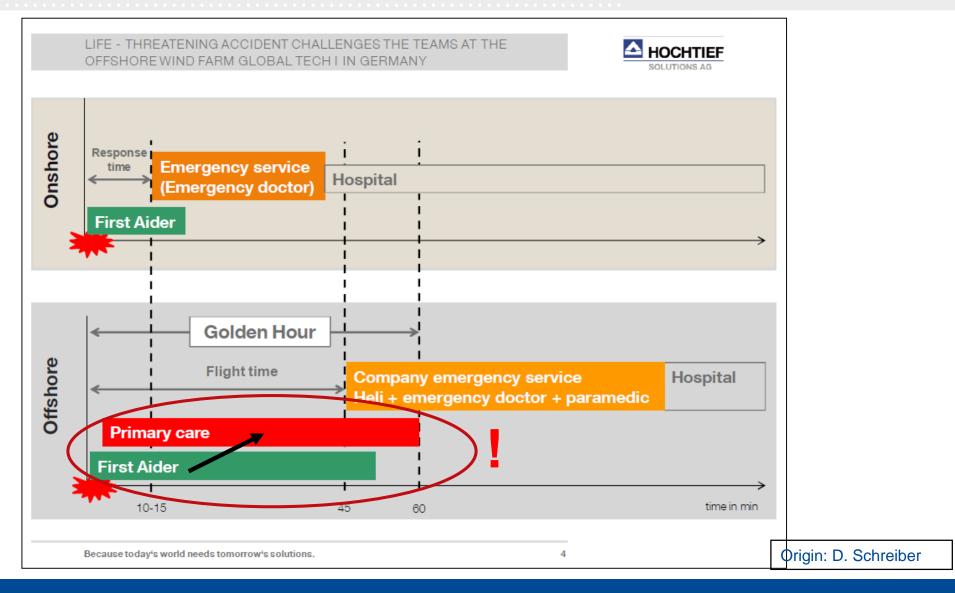
- releasing training standards
- certifiing training providers

First Aid Standards (Abbreviations):

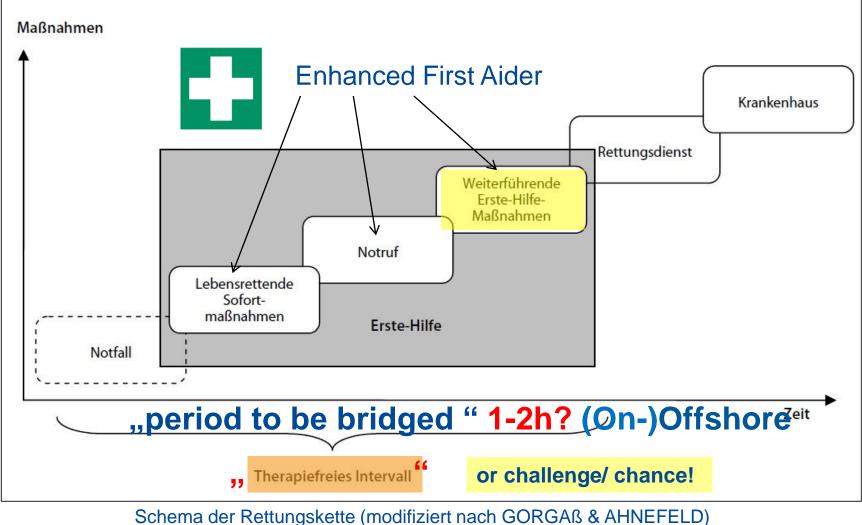
Basic: betrieblicher Ersthelfer (EH) / First Aider (FA) Basic further training: EH-Fortbildung (EH-F) / FA Refresher (FA-R) Enhanced: Ersthelfer Wind Energie (EH offshore/-WE) / Enhanced FA (EFA) Enhanced Refresher: EH-W-Refresher (EH-WE-R)/EFA-Refresher (EFA-R)

GWO

Starting Point 2011/2012



Rescue Chain – First Aid Measures on-site by Enhanced First Aid



nach Köhler M.C. (2006) Qualität von Erste-Hilfe-Maßnahmen bei Notfallpatienten

Framework Conditions and Parameters in Wind Energy Plants

Kind and Frequency of Emergencies:

- not only number of occupational accidents (rel. less often)
- but adverse circumstances (weather, sea) and
- in individual cases severe injuries (worst case) are to be taken into account as well as
- (more often sub-) acute illnesses. For all enterpreneurs must take care for immediate first aid.



Accidents and Emergencies

Occupational Accidents

Body temperature reduction

Fall from heights

Nearly drowning

Injuries as

- burning

- electrical accident
- intoxication

Acute Ilnesses

sea- / divers- illness

Mental illness

not work-related, e.g. Internistic diseases

(acute or degenerative) MSD

Detailed analysis of occ.-accident-data more detailed **in ROW-research** "Rettungskette Offshore Wind"

ofte,

Risk Assesssment – Basis for Prevention and First Aid

For all measures concerning rescue + first aid (FA) entrepreneurs need predictive FA-organisation on basis of risk assessment (prescribed in german ArbSchutzGesetz)!
dependent on different profiles of work according to kind / location / situation of work i. e.

- transport per ship, helicopter
- living on ship / transform / residential- / platforms
- building (locating / erecting) and operating wind mills
- activities: build / bring into service / maintain / repair

<u>Activities in on-/offshore Wind Industry generally reveal</u> <u>higher risks!</u> But they must be differentiated, because are varying dangerous. Thus different FA is necessary.

Risk Assessment – First Aid Measures DGUV-REH-Offshore 1. version 2016 as an example

	high e.g. (De-)commissioning work Large component replacement New installation work	Mobile rescue backpack O-FA* Teleconsultation	Mobile rescue backpack O-FA* Teleconsultation	Rescue service equipment EmPmed Teleconsultation	Rescue service equipment EmPmed Teleconsultation	Emergency medical equipment Emergency physician on OWF (especially for particularly hazardous work tasks)
of Risk	heightened e.g. Working on rotors Working at great heights Working on oranes Working under stress	Mobile rescue backpack O-FA* Teleconsultation	Mobile rescue backpack O-FA* Teleconsultation	Mobile rescue backpack O-FA* Teleconsultation	Rescue service equipment EmPmed Teleconsultation	Rescue service equipment EmPmed Teleconsultation
Degree of	medium e.g. Scheduled work Maintenance work Installation work	Mobile rescue backpack O-FA* Teleconsultation	Mobile rescue backpack O-FA* Teleconsultation	Mobile rescue backpack O-FA* Teleconsultation	Rescue service equipment EmPmed Teleconsultation	Rescue service equipment EmPmed Teleconsultation
	low e.g. Normal inspection work Operation monitoring	Mobile rescue backpack O-FA* Teleconsultation	Mobile rescue backpack O-FA* Teleconsultation	Mobile rescue backpack O-FA* Teleconsultation	Mobile rescue backpack O-FA* Teleconsultation	Rescue service equipment EmPmed Teleconsultation
		≤3	4-10	11-24	25-100	>100
	Persons Working Offshore					

Abbreviations: EmPmed: Emergency Paramedic (RettAss: Rettungsassistent or NotSan: Notfallsanitäter in German) O-FA: Offshore first aider

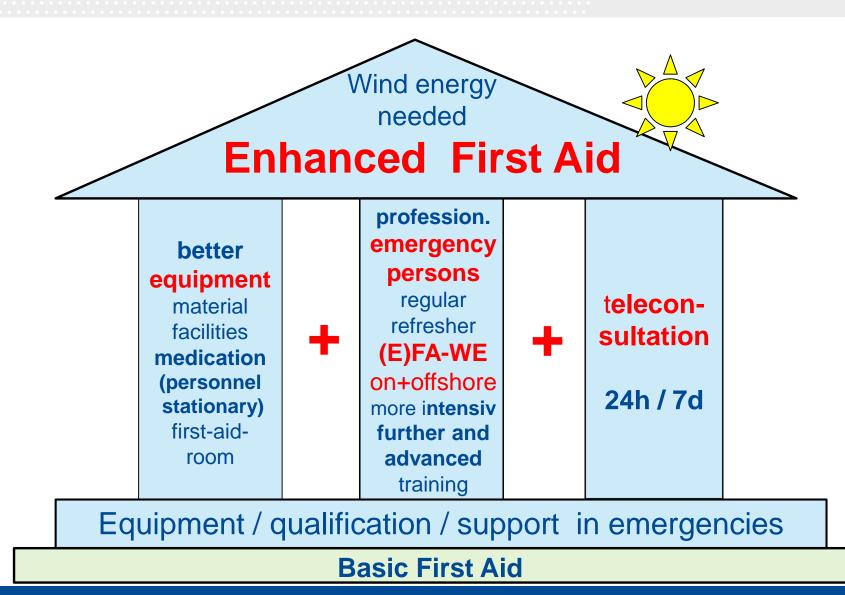
Motives and Principles of (DGUV and GWO) Enhanced First Aid Wind Energy

- Avoid detoriation and bad permanent outcome of
 - severe occupational accidents (i. e. polytrauma)
 - acute illnesses
- Don't "leave alone the first aider"!
- Including especially "worst cases"
- \Rightarrow enhanced FA-Measures to
 - stop bleeding
 - maintain the airways
 - immobilisation

BG maxim: "Mit allen geeigneten Mitteln…" "nach dem Stand von Wissenschaft und Technik"

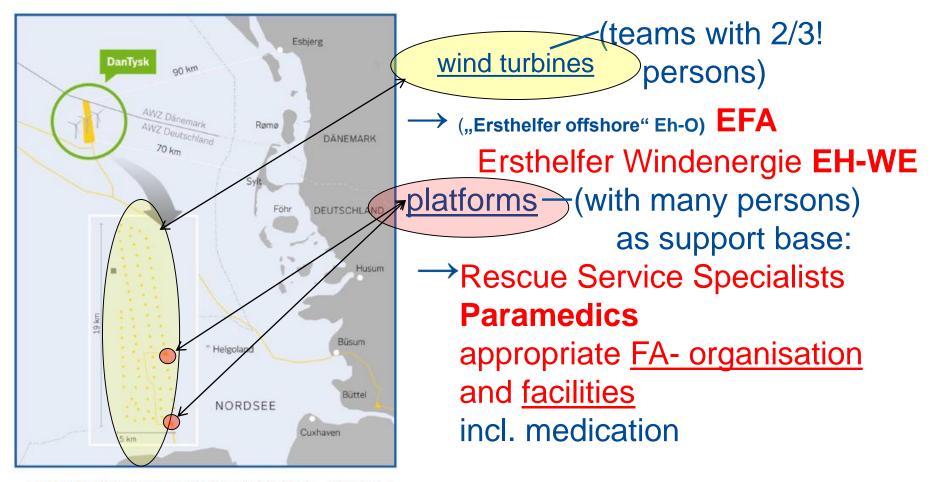
- emergency medication /managing pain
- principles: suitable / safely / unharmful affordable / reasonable
- FA-qualification related to risk assessment

FA Basic Concept WE



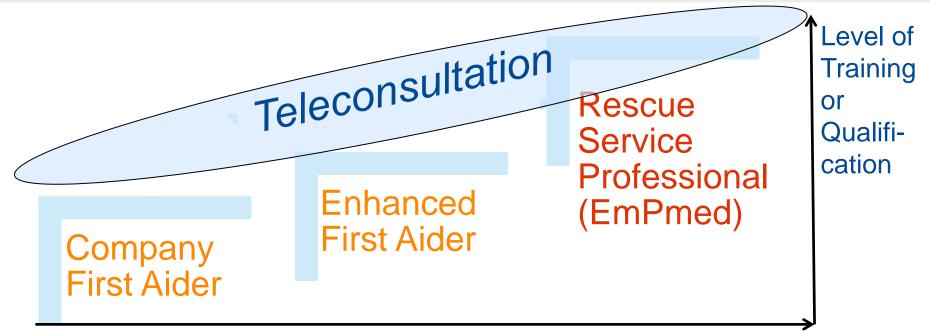
On-site Personnel and First Aid Organisation

DanTysk Offshore Windpark as example



6 | Vattenfall Europe Windkraft GmbH | Stefan Kahlen | 2013.02.24 |

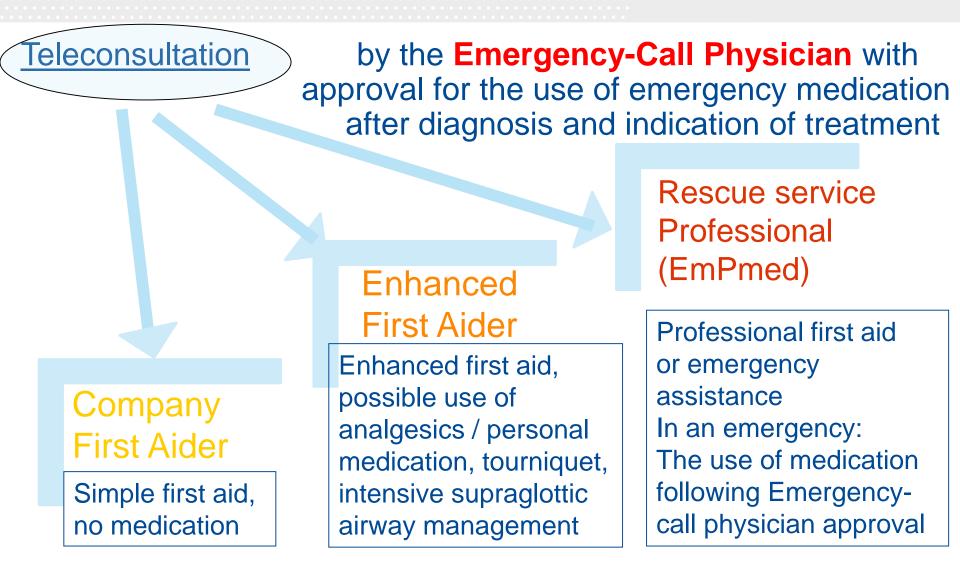
Benefit of Teleconsultation for all parties involved



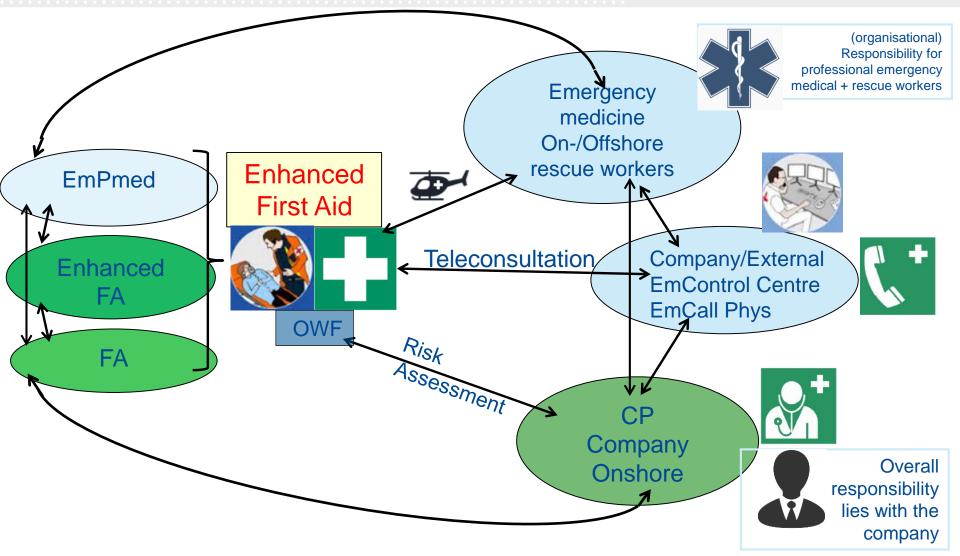
Qualification / Professional designation

<u>Teleconsultation with all parties involved</u> by emergency-call physician via telemedicine, offering advice, monitoring and support of enhanced First Aid measures

More Opportunities of Teleconsultation



"Enhanced First Aid" in wind energy branch Cooperation and Coordination



Preliminary evaluation

- Suitable, risk-adapted first aid measures are necessary
- are an important basis in the rescue-chain
- improve the probability of survival in severe cases
- are essential for a better outcome
- EFA under continous training (refresher courses) feel subjective more skilled und stable in emercency cases
- First aid measures are more reliable by skilled laymen
- Further scientific evaluation in ROW-research will show effects

Need and Benefits of Adaptation and mutual Recognition

course participants

time burden of doubling, similar courses can then be reduced, unnecessary administrative and legal inquiries avoided and the courses even better accepted

participating companies

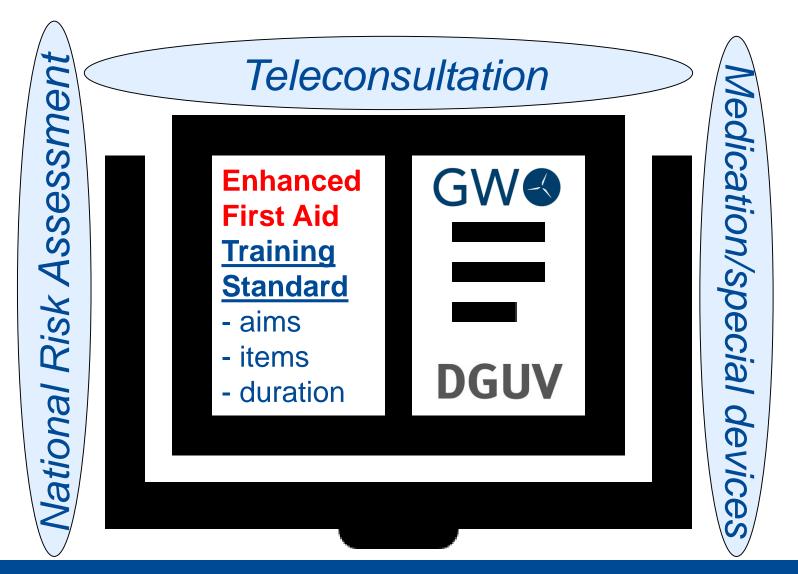
can avoid to check the qualification requirements or even send the employees to similar courses again. This saves annoyance, frustration of the employees and time and costs.

training providers

transparency of the course contents and issuing certificates are facilitated

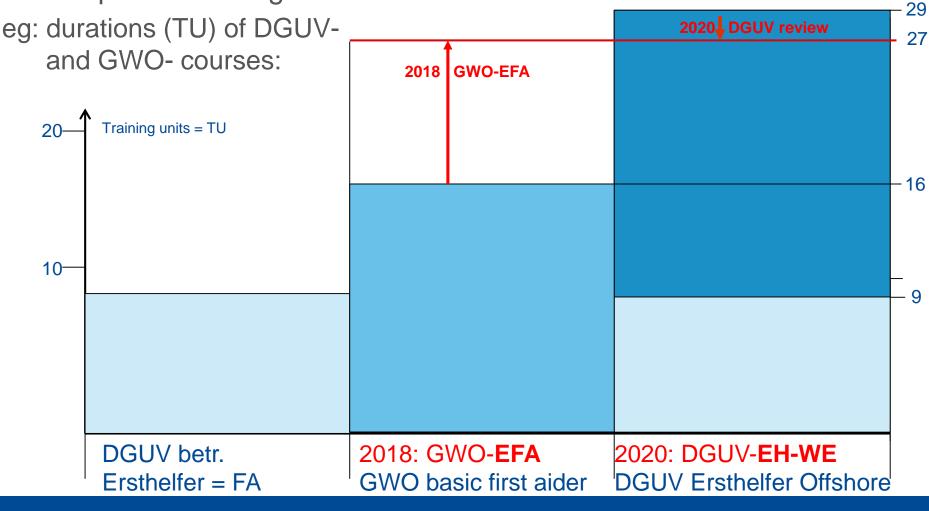
<u>supervisory institutions</u>, internal / external <u>consultants</u> of companies find clear guidelines and recommendations in the internationally adapted courses **Core Training Standard** (to be aligned and compared)

(Inter-)national Assessment Framework

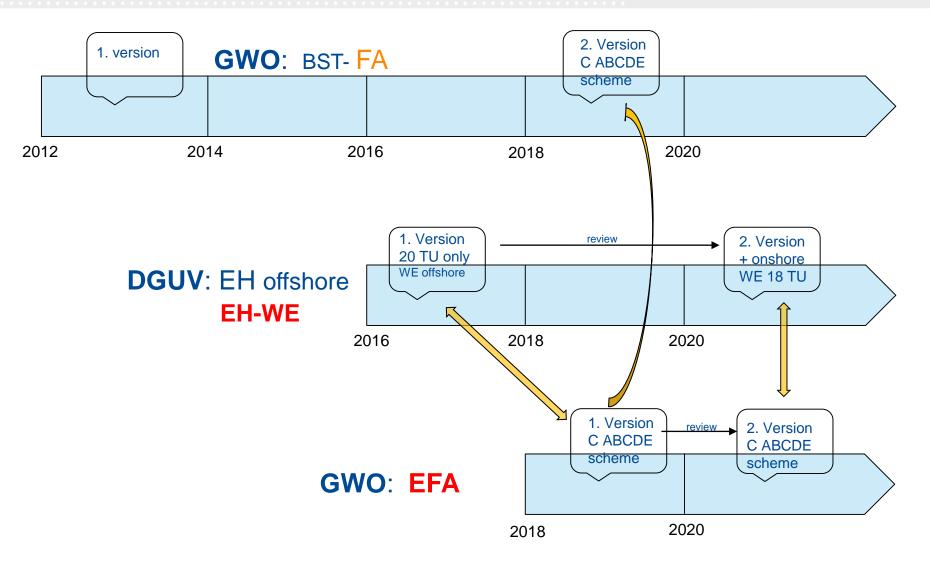


harmonization of FA-trainings for Wind Energy right from the start 2012 till now in 2020 for EFA

Differnet (inter-)national qualifications of First Aiders (=FA) should be compared and aligned because of economic and functional reasons.



Publications of first aid standards for Wind energy (WE) Chronical sequence and mutual alignment



DGUV and GWO EFA alignment

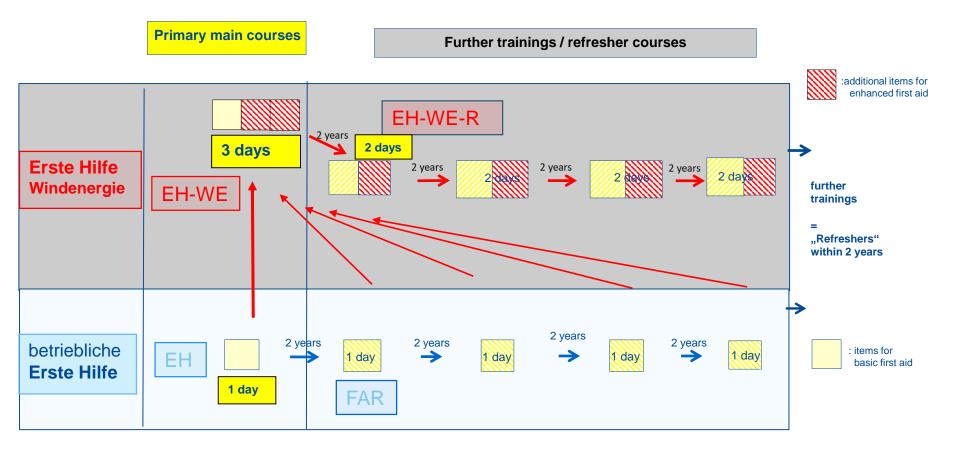
GWO Enhanced First Aid = EFA / DGUV Erste Hilfe Special Wind Energie = EH-WE

- **Recently changed by DGUV coordinated with those of GWO**:
- Not only offshore wind farms, but also onshore in remote areas Duration DGUV EH-WE add on module now 18 TU (prior 20) Combined 3 days EH-WE course now 27 TU (prior 29, GWO 26,2) Refresher course: repetition (1 day=9 TU) every 2 years (18 TU) (prior 4,5 yearly) Planned new Refresher standard EH-WE-R in new publication → DGUV-I 204-...", issue 04-2020? "First Aid in On- and Offshore Wind Farms"

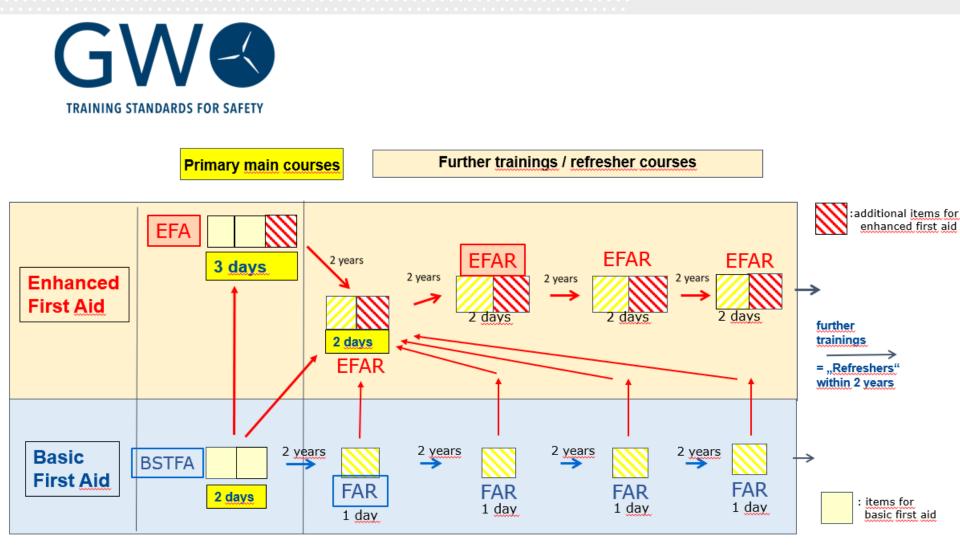
DGUV-I has higher level than prior (DGUVFB-EH)recommendation

Procedure of Basic and Enhanced First Aid Training: DGUV Primary main and further training courses

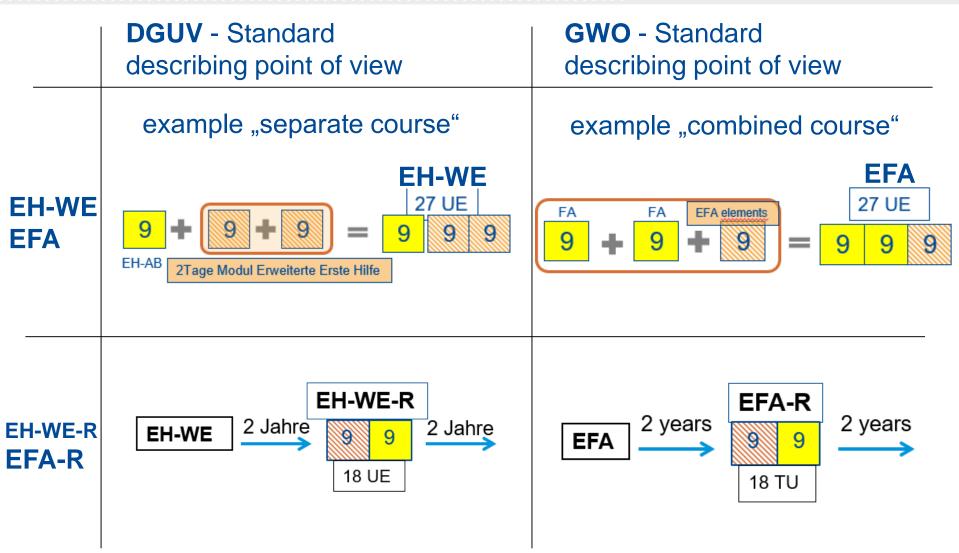
DGUV Fachbereich Erste Hilfe



Procedure of Basic and Enhanced First Aid Training: Main and further training elements



Overview EFA / EFA-R course duration DGUV / GWO



Overview of special training courses in Enhanced First Aid by DGUV and GWO

Institution	Course name	Abbreviatio n (suffix)	Procedure	Duratio n (days)	Duration (TU)	Total duration (min / h)
DGUV	Ersthelfer WE	EH-WE (add seperately	1 d <u>train</u> . <u>then</u> 2 d <u>spec</u> . <u>train</u>	1+2=3	9 <u>train</u> +18 <u>spec.train</u> = 27	1215 / 20,25
DGUV	Ersthelfer WE	EH-WE (<u>combined</u>)	Furth. + <u>spec</u> . train. comb. 3 d	3	27	1215 / 20,25
DGUV	Ersthelfer WE	EH-WE (via FAR)	2 d <u>spec</u> , <u>train</u> . after 1 d <u>furth</u> .t.	1+2=3	9 <u>furth</u> . <u>train</u> . + 18 <u>spec</u> = 27	1215 / 20,25
GWO	Enhanced First Aid	EFA (<u>combined</u>)	2 d <u>train</u> . + 1 d spec. comb. 3 d	2+1=3	ca. 26,2	1180 / 19,66
GWO	Enhanced First Aid	EFA (via EFAR)	1 d FAR + 2d spec combined EFAR	1+2=3	ca. 27	1220 / 20,33
DGUV	EH-WE Refresher	EH-WE-R	1 d <u>basic furth</u> . t. + 1 d EH <u>special</u>	1+1=2	9 <u>furth</u> . <u>train</u> . + 9 <u>spec</u> = 18	810 / 13,5
GWO	EFAR Refresher	EFAR	1 d FAR +1 d <u>spec</u> EFA <u>furth</u> . <u>train</u> .	1+1=2	9 <u>furth. train</u> . + 9 <u>spec</u> =17,8	800 / 13,3

Abbrev.: train. / t. = training / furth. = further / d = day / spec. = special

Comparison DGUV/GWO EFA courses

Comparable (Core)

- entire duration basic course + enhanced items
- learning objectives and contents

Equal importance of or emphasis on (framework)

- risk assessment as a basis
- inclusion of teleconsultation
- scenario-based, practical exercises
- recommended drills and training on site in between
- regular in-depth refresher courses

Aims

- ensure acquired knowledge
- skills and behaviour

Differences in certification

DGUV as the German Statutory Accident Insurance by law publishes and supervises - only FA training and further training - but not other special FA qualifications.

controls training providers - only in Germany - but not abroad.

	Inst.	kind	denomination	repetitions	regulations	contre l
<	DGUV	Grund-	Ausbildung	\rightarrow lfd. Fortbildungen	mandatory only	in D
	GWO	basic	training	\rightarrow further trainings	international	internat.
	DGUV	Spezielle	Weiterbildung	\rightarrow lfd. Refresher	recommended	internat.
	GWO	<u>special</u>	Enhanced Training	\rightarrow continous Refresher	international	Internat.

 GWO as an international NGO-institution is publishing training standards. and controlling their training providers worldwide.

Possible mutual recognition

Summary

After completion of the special further training courses GWO-EFA or GWO-EFAR and DGUV-EH-WE or DGUV-EH-WE-R a mutual recognition with participation certificates according to the DGUV and GWO criteria is possible. This enables course graduates to work both in Germany as EH-WE and internationally as GWO-EFA.

EFA-Courses - attestations

Location	Kind	Successfully completed course	Possible qualification certificates
D	Basic	GWO-BFA	GWO-BFA + DGUV-EH
	course	DGUV-EH	DGUV-EH
abroad		GWO-BFA	GWO-BFA
D	Basic	GWO-FAR	GWO-FAR, -BFA + DGUV-EH, -EH-FB
	repetition	DGUV-EH-FB	DGUV-EH, -EH-FB
abroad		GWO-FAR	GWO-FAR,-BFA
D	Enhanced	GWO-EFA, GWO-EFAR* + DGUV-EH-WE	GWO-BFA, -EFA + DGUV-EH, -EH-WE
abroad	course	GWO-EFA, GWO-EFAR* + DGUV-EH-WE	GWO-BFA, -EFA + DGUV-EH-WE
D	Enhanced	GWO-EFAR, DGUV-EH-WE-R	GWO-BFA, -EFAR + DGUV-EH-FB, -EH-WE-R
abroad	<u>refresher</u>	GWO-EFAR	GWO-BFA, -EFAR + DGUV-EH-WE-R

* = for the first time

Certification of both qualifications Proposal of DGUV-attestation for EFA(R)/EH-WE(R)

	"separate courses"
Teilnahmebescheinigung Erste Hilfe	EH-AB 2Tage Modul Erweiterte Erste Hilfe
Vorname Name hat erfolgreich an einem Kombinationskurs bestehend aus einer Erste-Hilfe-Ausbildung* für betriebliche Ersthelfende (9 UE) einer Erste-Hilfe-Fortbildung für betriebliche Ersthelfende (9 UE) *Die Teilnahme an der Ausbildung in betriebliche Erster Hilfe gilt als Schulung in Erster Hilfe gemäß § 19 Fahrerlaubnis-Verordnung (FeV).	EH-WE 2 Jahre 9 2 Jahre vom (Datum) bis (Datum)
Registriemummer der Schulung: Teilnehmerunterlagen ausgehändigt: □ Ja □ Nein und □ einer Erste-Hilfe-Weiterbildung für Ersthelfende-Windenergie (18 UE) □ einem Erste-Hilfe-Refresher-Training für Ersthelfende-Windenergie (9 UE) teilgenommen.	Wir sind eine nach den Vorgaben der Global Wind Organisations (GWO) zertifizierte Ausbildungsstelle sind. Daher gilt: Die Teilnahme an einer Aus- bzw. Fortbildung für betriebliche Ersthelfende in Kombination mit einer Weitebildungs- maßnahme für Ersthelfende-Windenergie, insgesamt 27 UE, gilt als Qualifizierung in Enhanced First Aid gemäß GWO. Die Teilnahme an einer Aus- bzw. Fortbildung für betriebliche Ersthelfende in Kombination mit einem Erste-Hilfe- Refresher-Training für Ersthelfende-Windenergie, insgesamt 18 UE, gilt als Enhanced First Aid Refresher gemäß GWO.
* Original DGUV proposal - draft	Ort Datum Unterschrift der Lehrkraft Name der ermächtigten Stelle:

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Thank you!



Foto: Rodegro



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