

**How to Act After Accidents Caused by Electrical Current – Course:
Basic Skills and Knowledge of Electrical Engineering. Instruction
Examples for Practical Vocational Training**

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How to Act After Accidents Caused by Electrical Current – Course: Basic Skills and Knowledge of Electrical Engineering. Instruction Examples for Practical Vocational Training

Institut für berufliche Entwicklung e.V.

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Lehrbeispiele für die berufspraktische Ausbildung
"Verhalten nach elektrischen Unfällen"

Author: Gerhard Klix

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Institut für berufliche Entwicklung e.V.
Parkstraße 23
13187 Berlin

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Introduction

The present material comprises 3 selected instruction examples on the basis of which essential skills may be practised as to how to act after accidents caused by electric current.

Since the necessary measures that have to be taken after accidents caused by electric current are mastered only after much practice, the instruction examples have to be constantly repeated.

In order to facilitate the preparation for and carrying out of the exercises, for each instruction example the required materials as well as basic knowledge are mentioned which must be available for accomplishing the tasks.

In addition to the sequence of actions sketches are enclosed showing how the exercises have to be carried out.

Instruction Example 1.1. Putting an Injured Person in Coma Position

It shall be practised how to put an injured person in coma position on the left or right side, respectively.

Material

Anatomical model
Dummy
Demonstration person

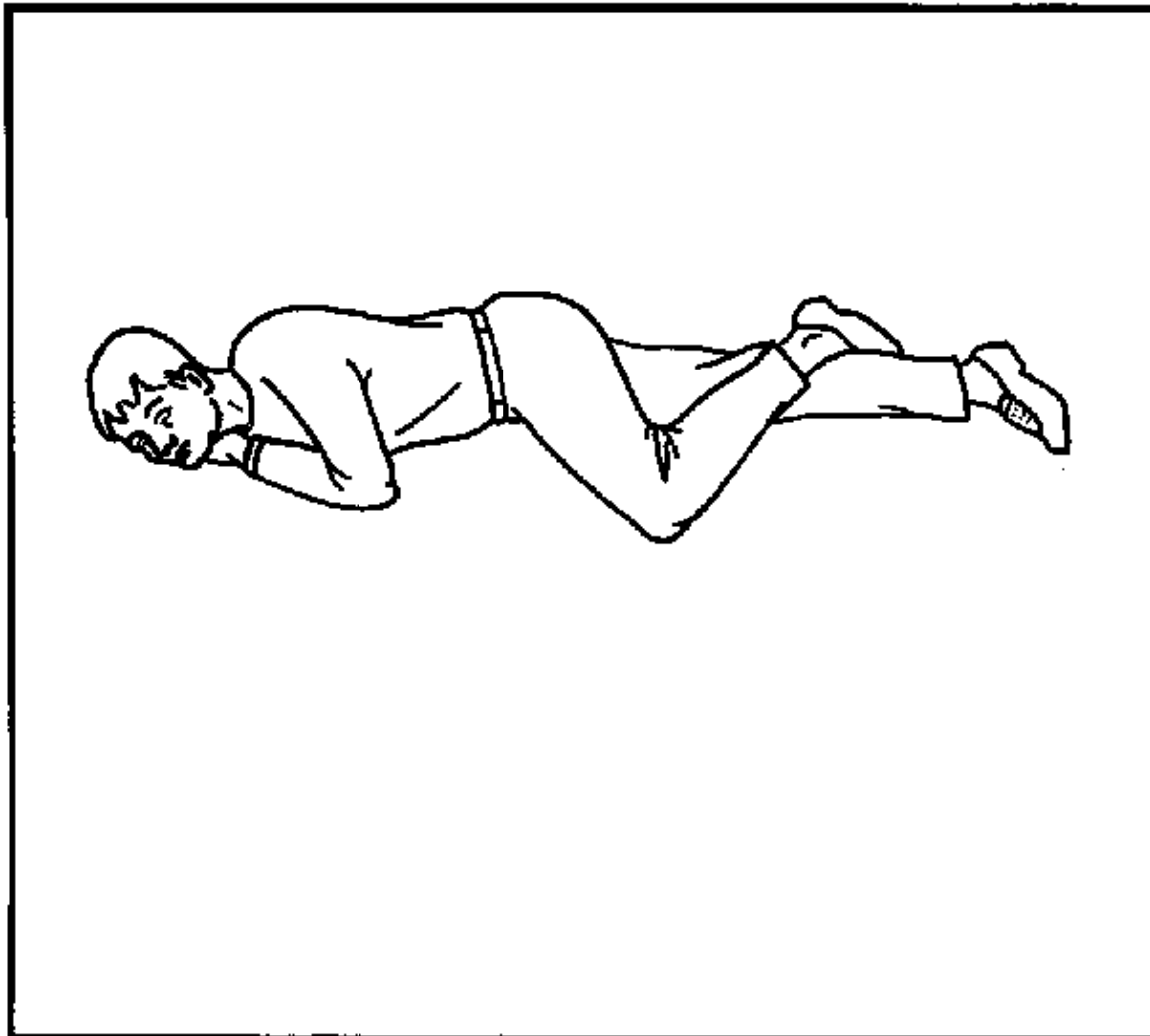
Required basic knowledge

Effects of electric current on human organism.

Rescuing of injured person out of electric plants below 1 kV, urgent measures after and accident caused by electric current.

Sequence of actions	Comments
<u>Coma position, right side</u>	

	If there are injuries on the right side of the body, the injured person has to be put in coma position on the left side!
1. The injured person is in dorsal position.	
2. Kneel down by the right side of the injured person.	Kneel down on the left side!
3. Carefully pull the injured person by his left arm and leg on his right side.	Use the right arm and right leg!
4. Pull the right arm of the injured person backwards underneath his body.	Left arm!
5. Bend his left arm and put his left hand under his head the back of the hand being placed under the face.	Right arm and right hand!
6. Bend his left leg by the knee and put the foot on the calf of the right leg which remains elongated.	Put the right leg on the calf of the left leg!



				1.1.
IBE	Putting an injured person in coma position			3101

Putting an injured person in coma position

Instruction Example 1.2. Immediate Measures after an Accident Caused by Electric Current

Practising of the immediate measures in order to be able to render prompt and safe help after an accident caused by electric current.

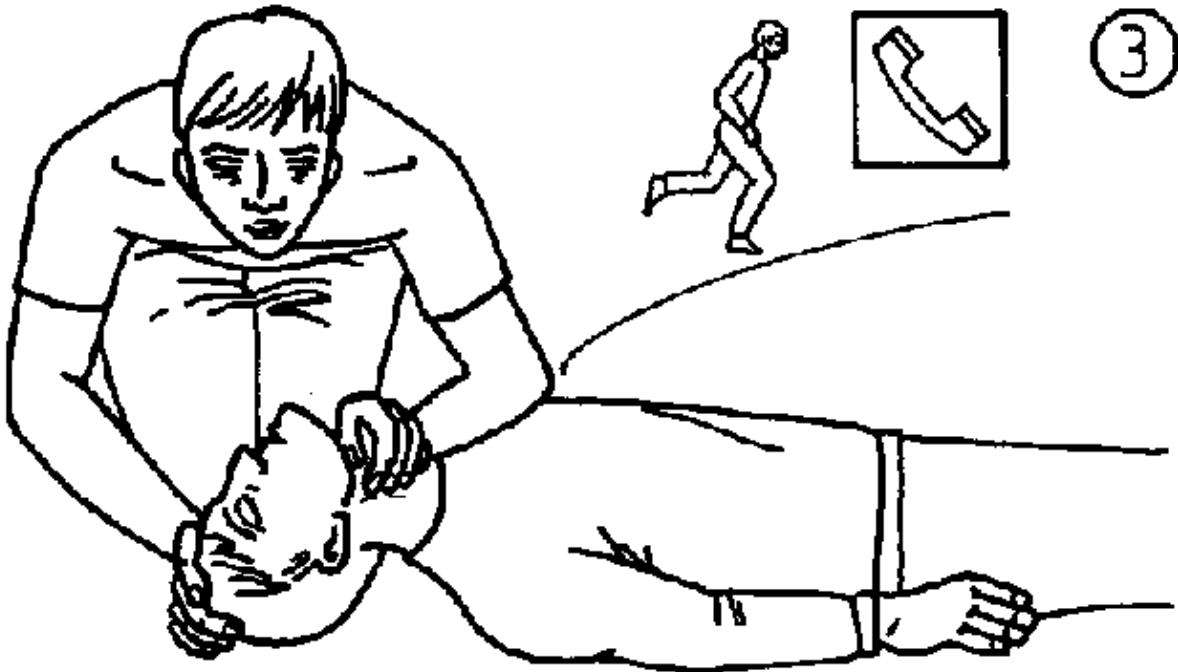
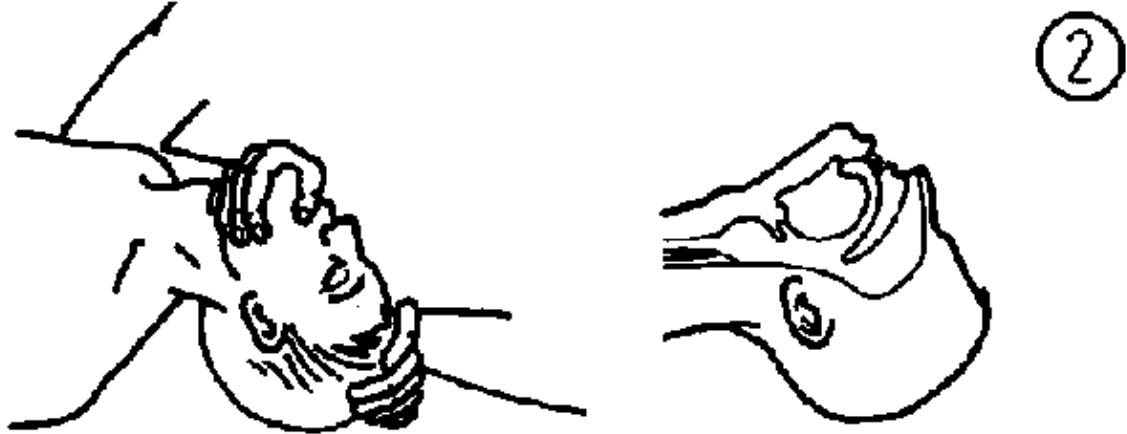
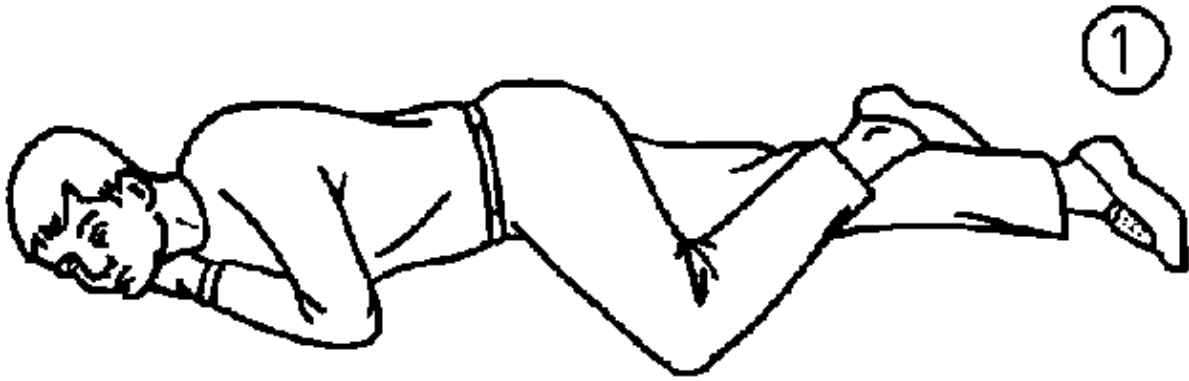
Material

Drinking water
 Bicarbonate of soda
 Receptacle holding 1 l
 Tablespoon or measuring jug of equal volume

Required basic knowledge

Effects of electric current on human organism.
 Knowledge of the measures which have to be taken.

Sequence of actions	Comments
1. Rescuing of the injured person.	Disconnect the fault–current circuit! Protect yourself!
2. Examine the injured person.	Heart activity! Respiration! Further signs of life! Further injuries!
3. Alkalinization.	Prepare an alkalinization solution.
4. Put the injured person in coma position.	Coma position on right side! In the case of injuries on the right side of the body, use left coma position!
5. Prepare for mouth–to–mouth respiration.	Open the mouth of the injured person. Clean the oral cavity (only suggest). Bend the head of the injured person backwards.
6. Carry out mouth–to–mouth respiration.	Only mention briefly.
7. Call medical help.	Inform the medical staff about: The kind of accident, the first aid measures that have already been taken.
8. Preparation of the transportation of the injured person for further medical treatment.	The injured person must be able to be transported: Blood circulation functions, respiration functions, no critical injuries!
9. Securing of the place of accident.	The place of accident must be secured in such a way that no further accidents may happen.



				1.2.
IBE	Immediate measures after an accident caused by electric current			3101

Immediate measures after an accident caused by electric current

Instruction example 1.3. Transportation of an Injured Person

Practising how an injured person has to be transported.

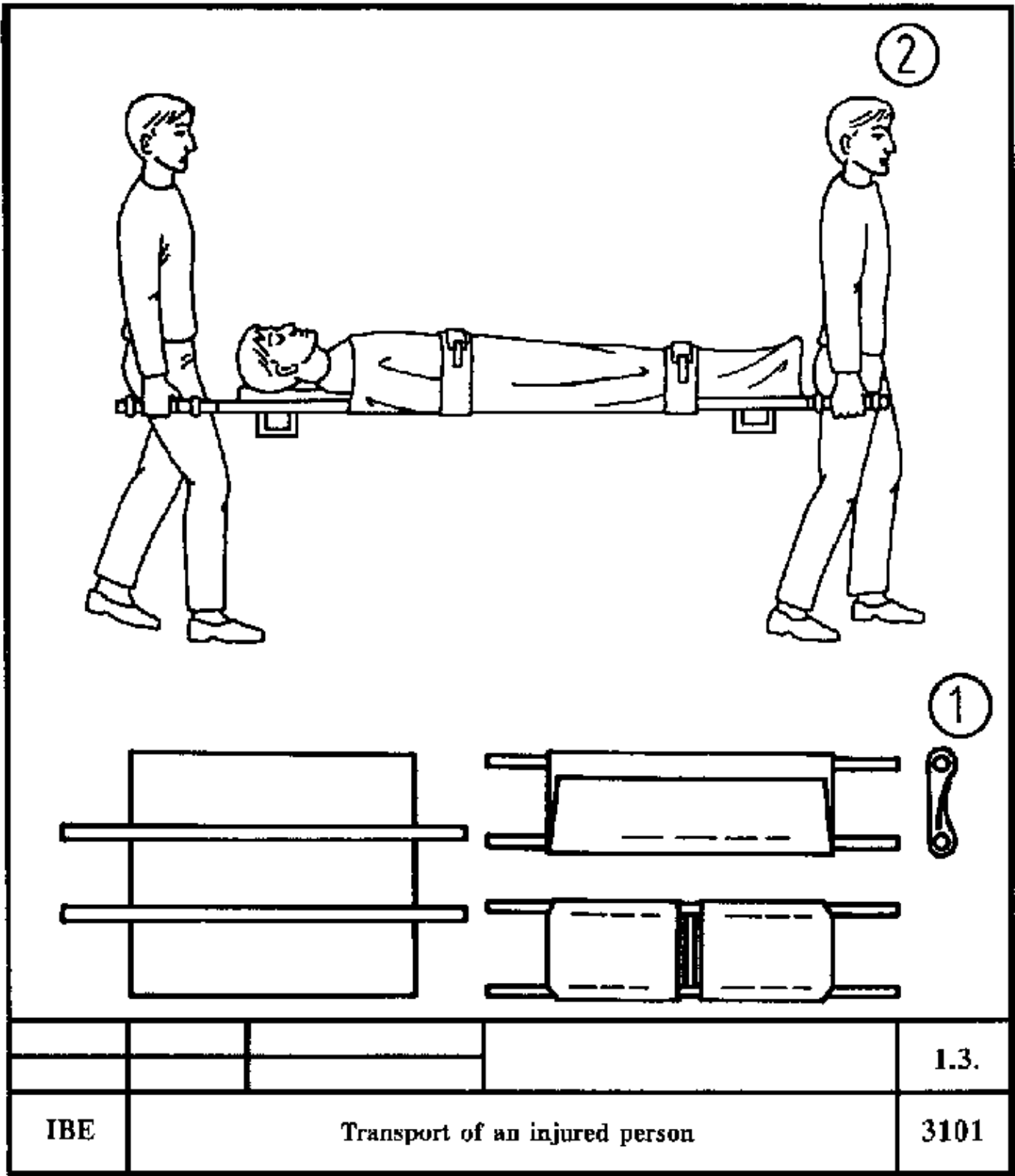
Material

Stretcher Wooden bars Blankets Belt

Required basic knowledge

Deciding whether an injured person is able to be transported

Sequence of actions	Comments
1. Deciding whether the injured person is able to be transported.	Blood circulation!
	Respiration!
	No critical injuries!
2. Placing at disposal of the stretcher.	If required, make a makeshift stretcher from wooden bars and blankets.
3. Putting the injured person on the stretcher.	If it is cold, cover the injured person with blankets. Make sure that the injured person cannot fall down.
4. Transportation of the injured person.	Lift and put down the stretcher simultaneously on the command.
	Hold the stretcher securely.
	Do not march in step!
	Draw each other's attention to obstacles.
	Make sure that the injured person's line of vision is in transport direction.
	Watch the injured person constantly during transportation.
5. Handing the injured person to the medical personnel.	Inform the medical staff about the kind of accident that had happened and about the first aid measures taken.



Transport of an injured person