



FACULTY/DEPARTMENT:
Faculty IV, Physics

WORKING GROUP:
PROF. AGIO

APPLICATION RANGE

Soldering electrical components.

RISKS FOR HUMANS AND ENVIRONMENT



Risk of burns on hot soldering iron.
Increased risk of fire from hot surfaces.
Drops from hot solder pose a risk of burns and injuries.
Health hazard of inhaling soldering smoke (lead, tin, rosin).



SECURITY MEASURES AND RULES OF CONDUCT



The operating instructions of the manufacturer must be observed.
Before starting work, check soldering iron / station and connecting line for obvious defects.
All flammable substances and objects must be removed from the working area (including dust deposits)
Work may only be carried out on a worktop of at least low flammability. Never use paper, cardboard or plastic underlays.
Lay the connection lines of the soldering iron / soldering station and other electrical equipment in such a way that they cannot be inadvertently connected to the hot parts.
De-energize unused soldering tools (switch off soldering station or unplug main plug).



Always place hot soldering irons in suitable holders.
Use solders according to DIN EN 29453 and DIN EN ISO 12224-1.
Use flux according to DIN EN 29454-1.
For short-term soldering: ensure good ventilation at the workplace (open window).
For regular soldering work, a solder fume absorber or a solder fume extractor is to be installed, which detects the solder fumes at the point of origin.
When using fluxes and soldering work, where the distance between the eye and the soldering point is <0.5 m, wear protective goggles.
Do not eat, drink or smoke at the workplace and do not store food.
Wash your hands before the you go on a break and after work.



BEHAVIOUR IN CASE OF MALFUNCTIONS

Disconnect the power plug, inform supervisor, Prof. Agio, Tel.-Nr.: 0271/740 3532, D. Gebauer 0271/740 3550

CONDUCT IN CASE OF ACCIDENT, HAZARD, FIRST AID



Ensure self-protection!

Secure the danger area or take people out of danger area.
Immediately cool burns for at least 10 minutes under cold running water.
Obtain first responder / paramedic, if necessary send emergency call.
First aid, care for injured. Inform supervisor.
Instruct rescue service.
All injuries must be documented in the first aid book!
Use the portable fire extinguisher to put out small fire.
For larger fires: Emergency call, leave danger area, warn colleagues.

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MAINTENANCE, DISPOSAL

Repairs may only be initiated by Prof. Agio or D. Gebauer.

Date: 20.03.2018

Signature: