

Shielded Metal Arc Welding

SMAW Set-up



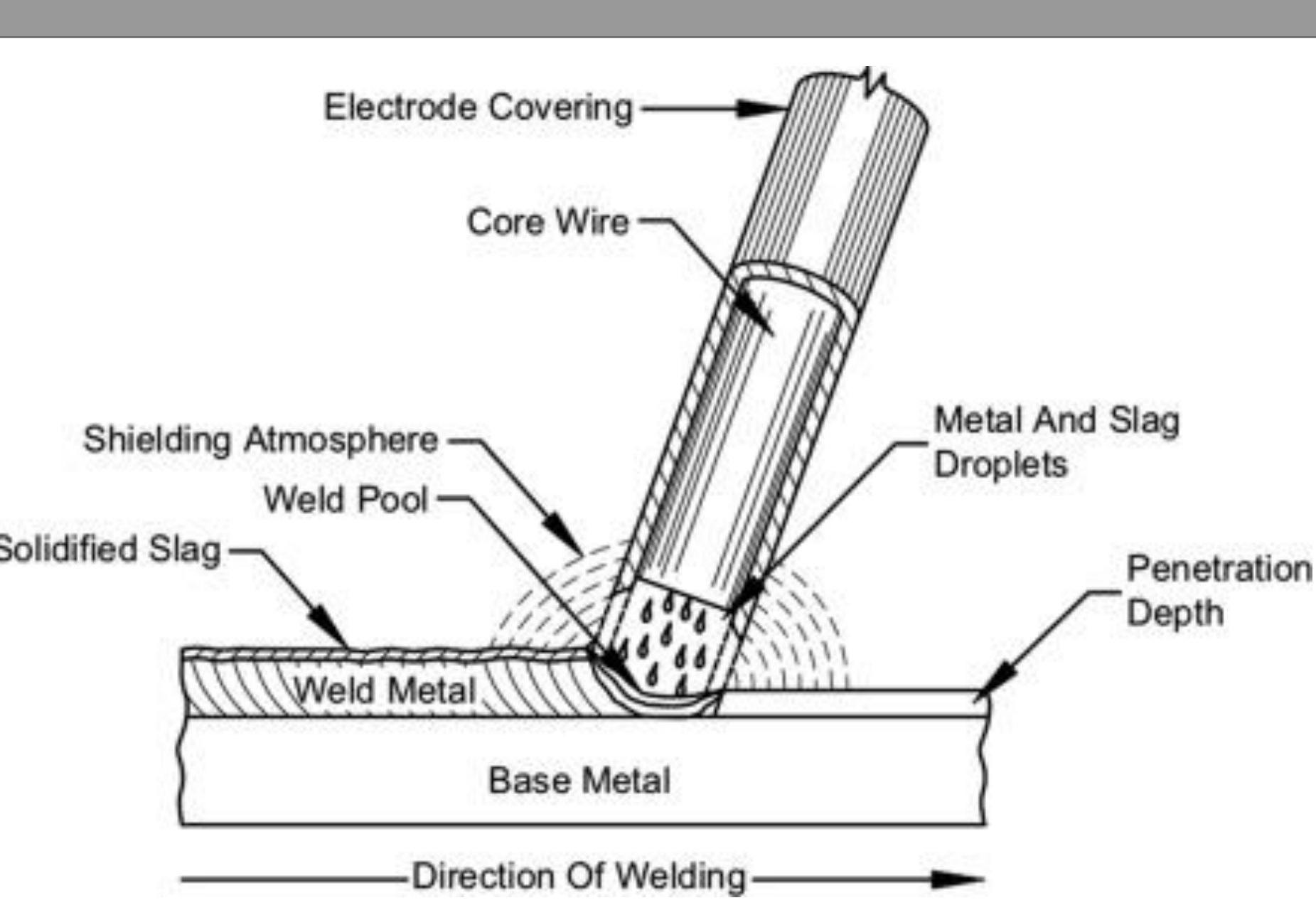
Advantages

- Able to Weld from Great Distances from Power Source
- No Shielding Gas Required
- Handles Rusty Metals
- Versatile for All Positions
- Portable and Outdoor Use

Disadvantages

- Lower Deposition Rate(~65%)
- Slower Welding Speed
- Not for Thinner Metals
- Slag & Heavy Fumes
- Requires proper skill & Training
- Dirty

How SMAW works



Electrode types

- E6010- Deep Penetration
- E6011- AC/DC Use
- E6013- Simple to Use
- E7018- Low-Hydrogen
- E= Electrode
- 60/70= Tensile Strength
- 1= All postions

Safety tips/PPE

- Welding helmet when welding
- Safety Glasses
- Welding Jacket
- Proper Clothing
- Gloves
- Check Connections
- Ensure Ventilation is On

Applications

- Construction
- Maintenance + Repair
- Fabrication
- Heavy machinery

Skills

- Arc control
- Proper Angle + Speed
- Amperage + Polarity