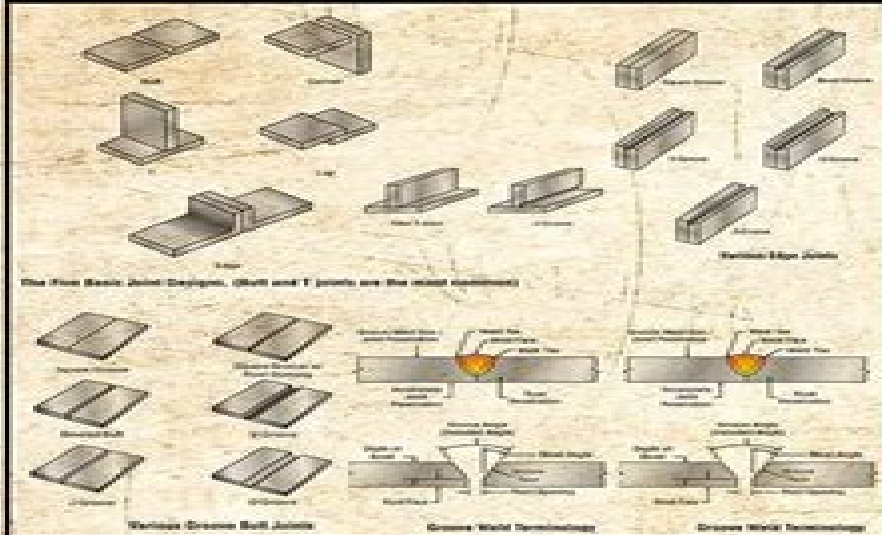


# WELDER KNOWLEDGE

## WELDING JOINT TYPES



## WELDING SYMBOLS

**General Welding Symbols and Their Locations Significance**

| Weld Type       | Symbol | Symbol | Symbol | Symbol | Symbol | Symbol | Symbol |
|-----------------|--------|--------|--------|--------|--------|--------|--------|
| Butt Joint      |        |        |        |        |        |        |        |
| Angle Joint     |        |        |        |        |        |        |        |
| Flange Joint    |        |        |        |        |        |        |        |
| End Plate Joint |        |        |        |        |        |        |        |
| Splice Joint    |        |        |        |        |        |        |        |
| Other Joint     |        |        |        |        |        |        |        |

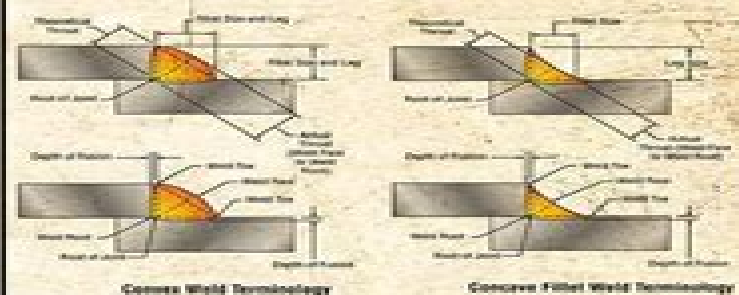
**Location of Details of a Welding Symbol**

The diagram shows a welded joint with the following labels:

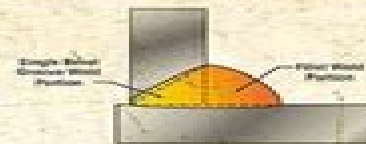
- Welding Symbol
- Reference Line
- Field of Weld
- Welding Process
- Welding Position
- Welding Direction
- Welding Sequence
- Welding Quality
- Welding Material
- Welding Equipment
- Welding Operator
- Welding Inspector
- Welding Engineer
- Welding Designer
- Welding Fabricator
- Welding Erector
- Welding Maintainer
- Welding Repairer
- Welding Welder
- Welding Weldress
- Welding Welder's Helper
- Welding Weldress's Helper
- Welding Welder's Apprentice
- Welding Weldress's Apprentice
- Welding Welder's Trainee
- Welding Weldress's Trainee
- Welding Welder's Student
- Welding Weldress's Student
- Welding Welder's Graduate
- Welding Weldress's Graduate
- Welding Welder's Professional
- Welding Weldress's Professional
- Welding Welder's Master
- Welding Weldress's Master
- Welding Welder's Journeyman
- Welding Weldress's Journeyman
- Welding Welder's Apprentice
- Welding Weldress's Apprentice
- Welding Welder's Trainee
- Welding Weldress's Trainee
- Welding Welder's Student
- Welding Weldress's Student
- Welding Welder's Graduate
- Welding Weldress's Graduate
- Welding Welder's Professional
- Welding Weldress's Professional
- Welding Welder's Master
- Welding Weldress's Master
- Welding Welder's Journeyman
- Welding Weldress's Journeyman

## WELD TYPES AND POSITIONS

## FILLET WELDS



## GROOVE WELDS



**A Groove Weld (Single Bevel) with a Fillet Weld Adding Additional Reinforcement on a T-Joint.**

### WELD POSITION



### Fillet Weld Positions



### Groove Weld Positions



### Pipe Groove Weld Positions

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**Universities' Guide to Graduate Study** ,1993      Laboratory Manual for Modern Welding William A. Bowditch,Kevin E. Bowditch,1986      Illinois Vocational Progress ,1967      *The Publishers Weekly* ,1913      **Vocational Education : State Instructional Materials for Trade and Industrial Occupations** Oklahoma. State Dept. of Vocational and Technical Education. Curriculum and Instructional Materials Center,1974

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