

# RANKEN

TECHNICAL COLLEGE

## COURSE INFORMATION

Course Number: FWL 1100

Course Name: Fundamentals of Welding Technology

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## WRITTEN CREDIT-BY-ASSESSMENT (CBA) COMPETENCY LIST

- Recall safety procedures for welding and cutting.
- Recall safety and theory for GMAW. (Gas Metal Arc Welding) (Mig)
- Demonstrate knowledge of the basic welding and cutting processes, the safety pertaining to them, and basic joint geometry.

## HANDS-ON CREDIT-BY-ASSESSMENT (CBA) COMPETENCY LIST

- Perform Oxy-fuel cutting manually and semi-automatic.
- Follow Safety and theory for Shielded Metal Arc Welding.
- Demonstrate Fillet welds in the horizontal and vertical positions with the SMAW process.
- Perform groove welds in the vertical positions with the SMAW process.
- Demonstrate safety and theory for GTAW. (Gas Tungsten Arc Welding) (Tig)
- Employ proper technique for stringer beads and fillet welds on mild steel stainless steel and aluminum with GTAW process in the vertical position.
- Employ proper technique for stringer beads, fillet welds and groove welds on mild steel with the GMAW process, all positions.
- Employ proper technique for stringer beads, fillet welds and groove welds on mild steel with the FCAW process, all positions.