

CT&DT-SPSU-"CHALLENGERS"-TASK#10

INFERENCE MAPPING

ABOUT: Use of Robots in Welding in inaccessible areas / Foundry:

(1). Access to Inaccessible Areas:

Inference: Robots can be designed with flexible arms and compact bodies to reach tight, hazardous spaces where manual welding is difficult.

Benefit: Increases efficiency by enabling work in confined or high-risk areas without risking worker safety

(2). Precision Welding:

Inference: Robots equipped with advanced sensors and automated control systems ensure highly accurate and consistent welds, even in hard-to-reach zones.

Benefit: Improves weld quality, reducing defects and rework.

(3). Heat and Hazardous Environment Handling:

Inference: Robots can operate in extreme temperatures and conditions found in foundries, where human intervention would be dangerous.

Benefit: Enhances safety by eliminating human exposure to hazardous environments.

(4). Increased Productivity:

Inference: Robots work continuously without fatigue, allowing for uninterrupted welding processes in challenging environments.

Benefit: Boosts overall productivity and reduces project timelines.

In conclusion, robots improve accessibility, safety, precision, and productivity in welding operations within inaccessible or hazardous areas in foundries.

TEAM MEMBERS

K.ROHIT
AB.SAI
M.DILLIP
G.AYYAPPA