PROBLEM STATEMENT

Develop an introductory ABB robotic training program (short form and long form) that would simulate a day-to-day production environment. The training guide will include the following:

- **Routines**
  - What Routines are available?
  - When to use them?
- **Position**
  - Which positions to modify?
  - How to?
  - Common Mistakes
- **Speed**
  - When it affects the program?
- **Work Object**
  - How are they used?
- **Zone**
  - What is this used for?
- **Kill switch**
- **Safety features**
  - Pre-program end effector check
  - Kill switch
  - Event messages

REQUIREMENTS

- 3D printed simulation components
- Robot studio simulation
- Easy removal Shunk robot gripper & attachment design
- User friendly training code
- Short form manual for cell
- Detailed training cell manual

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REFERENCES

1. IRB 1200 - Articulated robots portfolio
2. NGP 25 – Shunk Robot Gripper