IAR 212 6 Axis Robotic Arm in Industrial Automation

Module 1: Introduction

- Introduction

Module 2: Introduction to 6 Axis Arm

- Lesson 1: Introduction to the 6 Axis arm
- Lesson 2: Color Coding for formative, Summative, Interactions, and video
- Lesson 3: Articulated Arm system
- Lesson 4: Articulated arm Anatomy of Arm
- Lesson 5: Articulated arm designs

Module 3: Robot Controllers

- Lesson 6: Robot Pendant details
- Lesson 7: Robot Controller details

Module 4: Theory of Robot Arms

- Lesson 8: Common uses of an articulated robot arm
- Lesson 9: Strengths / Weaknesses
- Lesson 10: Payload
- Lesson 11: Workplace & Reach study
- Lesson 12: End of travel / hardstops
- Lesson 13: Coordinate Frames
- Lesson 14: Singularities

Module 5: Robot Brands

- Lesson 15: Different Robot Brands
- Lesson 16: Robot Options
- Lesson 17: Home Position
- Lesson 18: Robot Startup/Shutdown
- Lesson 19: Robot motion stop / estop
- Lesson 20: Robot Troubleshooting

Module 6: Interactive Timed Assessment

Module 7: Conclusion

- Lesson 15: Conclusion