

OJT LIST OF COMPETENCIES

Course Title: Work-Study Diploma in Microelectronics

Level: Diploma

Note:

Companies must be able to provide at least 75% of the List of Competencies (standard) to be eligible to participate in the OJT programme. If they are unable to meet 75% of the List of Competencies (standard), they could propose company-specific competencies [up to 25% of the List of Competencies (standard)] to be covered, to meet the course requirements. Competencies which companies could provide in the List of Competencies (Standard) + competencies listed under Company-Specific Competencies then form the Agreed OJT List of Competencies.

Trainees must complete at 100% of the competencies listed in the Agreed OJT List of Competencies. Approval must be obtained from ITE before the company-specific competencies could be implemented.

S/n	List of Competencies (Standard)	Company to indicate ‘✓’ it is able to provide
1.	Execute safe work practices	
2.	Execute risk control measures	
3.	Execute good manufacturing practices	
4.	Execute semiconductor manufacturing processes	
5.	Measure process parameter with metrology technique	
6.	Optimise semiconductor manufacturing processes	
7.	Execute data cleansing practices	
8.	Analyse defect and yield in the manufacturing process	
9.	Evaluate out-of-control and abnormal chart trends for continuous improvement	
10.	Integrate IoT system	
11.	Validate system performance for IoT system	
12.	Execute process automation tasks	
13.	Perform routine check on semiconductor system	
14.	Maintain semiconductor equipment	
15.	Perform functional test on semiconductor equipment	
16.	Analyse key process parameters	
17.	Determine upper and lower process control window	
18.	Evaluate process capability	
19.	Perform operational test on industrial automation and robotic systems	
20.	Troubleshoot industrial automation and robotic systems	
21.	Evaluate system performance and safety compliance	
22.	Develop structured problem-solving skills	
23.	Conduct project planning	
24.	Produce technical reports and presentation	
	Total No. of Competencies (Standard) that Company can provide	

S/n	Company-Specific Competencies	
1.		
2.		

S/n	Company-Specific Competencies	
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
	Total No. of Company-Specific Competencies Proposed	

Note: Competencies proposed by company must be endorsed by ITE.