

Micro Credential



Basics of Semiconductor Manufacturing Process OEM Qualification Name Semiconductor Manufacturing Technician

MCr Code: ELE/MCr-0003

Version: 1.0

NSQF Level: 4.5

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ELE/MCr-0003 : Basics of Semiconductor Manufacturing Process OEM Qualification Name Semiconductor Manufacturing Technician

Description

The Basics of Semiconductor Manufacturing Process is an upskilling course that offers foundational skills in semiconductor manufacturing, focusing on equipment such as valves, actuators, chillers, sensors, and environmental control systems critical to the manufacturing process. Learners will gain overview of operation, maintenance, safety protocols, and quality standards, preparing them for technical roles in the semiconductor industry.

Micro Credential Module Details and Duration

Training Delivery Mode		Theory (Hours)	Practical (Hours)	Total (Hours)
Blended	Classroom Offline	0000:00	0018:00	18:00
	Online	0012:00	0000:00	12:00
	Total	12:00	18:00	30:00

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Assessment Criteria

Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Passing Percentage
40	60	-	-	100	70

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Micro Credential (MCr) Parameters

MCr Code	ELE/MCr-0003
MCr Name	Basics of Semiconductor Manufacturing Process OEM Qualification Name Semiconductor Manufacturing Technician
Sector	Electronics
NSQF Level	4.5
Credits	1
Version	1.0
Minimum Job Entry Age	16
Minimum Educational Qualification & Experience	Completed 3 year diploma after 10th (Electronics and Communication Engineering/ Electrical Engineering) with 6 Months of experience Relevant experience - In Semiconductor Domain OR 12th Class (12th in science or equivalent in science) with 1.5 years of experience Relevant experience - In Semiconductor Domain OR 10th Class (10th or equivalent) with 4.5 years of experience Relevant experience - In Semiconductor Domain OR Previous relevant Qualification of NSQF Level (4) with 1.5 years of experience Relevant experience - In Semiconductor Domain
Pre-Requisite License or Training	NA
Last Reviewed Date	07/10/2025
Next Review Date	07/10/2028
NSQF Clearance Date	07/10/2025
Reference code on NQR	NM-4.5-EH-045002025-V1-ESSCI
NQR Version	1