

Micro Credential



Basic Pneumatics in Semiconductor Manufacturing

MCr Code: ELE/MCr-0007

Version: 1.0

NSQF Level: 4.5

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Micro Credential

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ELE/MCr-0007 : Basic Pneumatics in Semiconductor Manufacturing

Description

In the Basic Pneumatics in Semiconductor Manufacturing course, learners gain foundational skills and knowledge to work effectively with pneumatic systems used in semiconductor manufacturing environments. The curriculum focuses on understanding air compression, air distribution and treatment, and the operation of pneumatic components, with emphasis on system reliability, efficiency, and safe application in ATMP and OSAT processes.

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-0007
MCr Name	Basic Pneumatics in Semiconductor Manufacturing
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 In Semiconductor Manufacturing Domain OR 12th grade Pass (12th in science or equivalent in science) with 1.5 years of experience In Semiconductor Manufacturing Domain OR 10th grade pass (10th or equivalent) with 4.5 years of experience In Semiconductor Manufacturing Domain OR Previous relevant Qualification of NSQF Level (4) with 1.5 years of experience In Semiconductor Manufacturing Domain
Pre-Requisite License or Training	NA
Last Reviewed Date	08/07/2026
Next Review Date	08/07/2029
NSQF Clearance Date	08/07/2026
Reference code on NQR	NM-4.5-EH-05291-2026-V1-ESSCI
NQR Version	1