

As Per NSQF Implementation Manual & Syllabus

WIREMAN

**Formative Internal Assessment
(Annex-II)**

First Year

Craft Instructor Name :-

Name Of the Institute :- Industrial Training Institute,

ANNEXURE-II
FORMAT FOR INTERNAL ASSESSMENT

Name & Address of the Assessor :													Year of Enrollment :		
Name & Address of ITI (Govt./Pvt.) :			Industrial Training Institute, Satpur, Nashik										Date of Assessment :		
Name & Address of the Industry :			Trimbakeshwar Road, Satpur MIDC, Satpur										Assessment location : ITI Industry / ITI		
Trade Name :		WIREMAN				Examination :I/II				II		Duration of the Trade / course :-TWO YEAR			
Learning Outcome: 20		20. Construct and test Half-wave, full-wave, and bridge rectifiers with filter & without filter. Trouble shoot and service of DC regulated power supply.													
Learning Outcome: Suboutcome		20.1 Practice soldering of components. 20.2 Identify passive /active components by visual appearance, Code number and test for their condition. 20.3 Construct and test a half wave, full wave and bridge rectifiers with and without filter circuits. 20.4 Identify the control and functional switches in CRO and measure the D.C. / A.C. voltage, frequency and time period. 20.5 Identify the parts, trouble shoot & service a DC regulated power supply.													
Professional Skills (Trade Practical) With Indicative Hours		110. Identify the terminals of LED, Diode, transistor, Zener diode, UJT, SCR, regulator ICs and test it. (25 hrs.)													
Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
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Craft Instructor Sign.

Group Instructor Sign.

Principal / Vice Principal Sign.

External Examiner Sign

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Name & Address of the Industry :			Trimbakeshwar Road, Satpur MIDC, Satpur										Assessment location : ITI Industry / ITI		
Trade Name :		WIREMAN				Examination :I/II				II		Duration of the Trade / course :-TWO YEAR			
Learning Outcome: 20		20. Construct and test Half-wave, full-wave, and bridge rectifiers with filter & without filter. Trouble shoot and service of DC regulated power supply.													
Learning Outcome: Suboutcome		20.1 Practice soldering of components. 20.2 Identify passive /active components by visual appearance, Code number and test for their condition. 20.3 Construct and test a half wave, full wave and bridge rectifiers with and without filter circuits. 20.4 Identify the control and functional switches in CRO and measure the D.C. / A.C. voltage, frequency and time period. 20.5 Identify the parts, trouble shoot & service a DC regulated power supply.													
Professional Skills (Trade Practical) With Indicative Hours		111. Construct and test variable DC power supply and trouble shoot the defects in a simple power supply. (25 hrs.)													
Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
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Trade Name :		WIREMAN				Examination :I/II				II		Duration of the Trade / course :-TWO YEAR			
Learning Outcome: 20		20. Construct and test Half-wave, full-wave, and bridge rectifiers with filter & without filter. Trouble shoot and service of DC regulated power supply.													
Learning Outcome: Suboutcome		20.1 Practice soldering of components. 20.2 Identify passive /active components by visual appearance, Code number and test for their condition. 20.3 Construct and test a half wave, full wave and bridge rectifiers with and without filter circuits. 20.4 Identify the control and functional switches in CRO and measure the D.C. / A.C. voltage, frequency and time period. 20.5 Identify the parts, trouble shoot & service a DC regulated power supply.													
Professional Skills (Trade Practical) With Indicative Hours		112. Construction & testing of various electrical circuits with different accessories. (15 hrs.) 113. Connection of Calling Bell, Buzzer, Electric Iron, Heater,Light & Fan etc. (15 hrs.)													
Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
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Trade Name :		WIREMAN				Examination :I/II				II		Duration of the Trade / course :-TWO YEAR			
Learning Outcome: 20		20. Construct and test Half-wave, full-wave, and bridge rectifiers with filter & without filter. Trouble shoot and service of DC regulated power supply.													
Learning Outcome: Suboutcome		20.1 Practice soldering of components. 20.2 Identify passive /active components by visual appearance, Code number and test for their condition. 20.3 Construct and test a half wave, full wave and bridge rectifiers with and without filter circuits. 20.4 Identify the control and functional switches in CRO and measure the D.C. / A.C. voltage, frequency and time period. 20.5 Identify the parts, trouble shoot & service a DC regulated power supply.													
Professional Skills (Trade Practical) With Indicative Hours		114. Practice in soldering and brazing by following Indian Electricity rules. (20 hrs.)													
Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
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Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur		Assessment location : ITI Industry / ITI	
Trade Name :	WIREMAN	Examination :I/II	II	Duration of the Trade / course :-TWO YEAR	
Learning Outcome: 21	21. Understand the constructional features, working principles of DC machine. Starting with suitable starter, running, forward and reverse operation and speed control of DC motors. Conduct the load performance test of DC machine with due care and safety. Maintain and troubleshoot of DC machines.				
Learning Outcome: Suboutcome	21.1 Plan work in compliance with standard safety norms related with DC machines. 21.2 Identify the parts of DC machine and measure armature & field resistances and insulation resistance. 21.3 Connect a DC generator, build up the voltage & load with proper safety. 21.4 Disassemble, service and assemble a DC generator with due care. 21.5 Connect the DC motor through 2/3/4 point starter, run, adjust the speed & change direction of rotation. 21.6 Troubleshoot & maintain a DC machine.				
Professional Skills (Trade Practical) With Indicative Hours	D.C. GENERATORS, 115. Identification of the parts of D.C. Generators. (5 hrs.) 116. Testing and measuring the field and Armature resistances. (5 hrs.) 117. Dismantle the D.C. Generator and Reassemble and test for its working. (15 hrs.)				

Sl. No.	Maximum Marks (Total 100 Marks)												Total internal assessment Marks	Result (Y/N)	Trainee Sign.		
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Trade Name :	WIREMAN	Examination :I/II	II		Duration of the Trade / course :-TWO YEAR		
Learning Outcome: 21	21. Understand the constructional features, working principles of DC machine. Starting with suitable starter, running, forward and reverse operation and speed control of DC motors. Conduct the load performance test of DC machine with due care and safety. Maintain and troubleshoot of DC machines.						
Learning Outcome: Suboutcome	21.1 Plan work in compliance with standard safety norms related with DC machines. 21.2 Identify the parts of DC machine and measure armature & field resistances and insulation resistance. 21.3 Connect a DC generator, build up the voltage & load with proper safety. 21.4 Disassemble, service and assemble a DC generator with due care. 21.5 Connect the DC motor through 2/3/4 point starter, run, adjust the speed & change direction of rotation. 21.6 Troubleshoot & maintain a DC machine.						
Professional Skills (Trade Practical) With Indicative Hours	118. Identification of different parts of generators testing fields & Apparatus. (12 hrs.) 119. Insulation resistance measurements. (8 hrs.) 120. Building up of voltage and loading generators. (10 Hrs.) 121. Servicing of generators including replacing of carbon brushes. (20 hrs.)						

Sl. No.	Maximum Marks (Total 100 Marks)												Total internal assessment Marks	Result (Y/N)	Trainee Sign.		
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Trade Name :		WIREMAN				Examination :I/II				II		Duration of the Trade / course :-TWO YEAR			
Learning Outcome: 21		21. Understand the constructional features, working principles of DC machine. Starting with suitable starter, running, forward and reverse operation and speed control of DC motors. Conduct the load performance test of DC machine with due care and safety. Maintain and troubleshoot of DC machines.													
Learning Outcome: Suboutcome		21.1 Plan work in compliance with standard safety norms related with DC machines. 21.2 Identify the parts of DC machine and measure armature & field resistances and insulation resistance. 21.3 Connect a DC generator, build up the voltage & load with proper safety. 21.4 Disassemble, service and assemble a DC generator with due care. 21.5 Connect the DC motor through 2/3/4 point starter, run, adjust the speed & change direction of rotation. 21.6 Troubleshoot & maintain a DC machine.													
Professional Skills (Trade Practical) With Indicative Hours		MOTORS & STARTER: 122. Practice in connecting generators- Generators- Testing of D.C. Machines by Megger. (12 hrs.) 123. General maintenance of D.C. machines. (13 hrs.) 124. Testing of D.C. Motors - connect run and change direction of rotation. (12 hrs.)													
Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
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Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur		Assessment location : ITI Industry / ITI	
Trade Name :	WIREMAN	Examination :I/II	II	Duration of the Trade / course :-TWO YEAR	
Learning Outcome: 21	21. Understand the constructional features, working principles of DC machine. Starting with suitable starter, running, forward and reverse operation and speed control of DC motors. Conduct the load performance test of DC machine with due care and safety. Maintain and troubleshoot of DC machines.				
Learning Outcome: Suboutcome	21.1 Plan work in compliance with standard safety norms related with DC machines. 21.2 Identify the parts of DC machine and measure armature & field resistances and insulation resistance. 21.3 Connect a DC generator, build up the voltage & load with proper safety. 21.4 Disassemble, service and assemble a DC generator with due care. 21.5 Connect the DC motor through 2/3/4 point starter, run, adjust the speed & change direction of rotation. 21.6 Troubleshoot & maintain a DC machine.				
Professional Skills (Trade Practical) With Indicative Hours	125. Study of DC starters- 2 point 3 point and 4 point speed control of D.C. Motors and speed measurement. (13 hrs.) 126. Use Revolution counter. (6 hrs.) 127. Trouble shooting and fault rectification. Identify and test different types of D.C motors. (19 hrs.)				

Sl. No.	Maximum Marks (Total 100 Marks)												Total internal assessment Marks	Result (Y/N)	Trainee Sign.
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Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur			Assessment location : ITI Industry / ITI	
Trade Name :	WIREMAN	Examination :I/II	II	Duration of the Trade / course :-TWO YEAR		
Learning Outcome: 22	22. Understand the constructional features, working principles of single phase and 3 phase AC motors. Starting with suitable starter, running, forward and reverse operation and speed control of AC motors with due care and safety.					
Learning Outcome: Suboutcome	22.1 Plan work in compliance with standard safety norms related with AC motors. 22.2 Connect start, run and reverse the DOR of different type of single phase motors. 22.3 Identify the terminals of 3 phase squirrel cage induction motor, wire up, run using different types of starters and change the direction of rotation. 22.4 Determine the efficiency of 3 phase squirrel cage induction motor by no load test/ blocked rotor test and brake test. 22.5 Wire up, start, run and adjust the speed of a slip-ring induction motor. 22.6 Construct DOL, Forward/Reverse starter circuits using push button switches, contactors, overload relays etc. 22.7 Practice power connections to motors.					
Professional Skills (Trade Practical) With Indicative Hours	128. Tests on 3 phase circuit. (10 hrs.) 129. Current and voltage measurement in star and delta connections. (12 hrs.) 130. Measurement A.C. 3 ph. power. (18 hrs.) 131. Determine the V and I relation in Star/Delta connections in a 3-Ph motor. (10 hrs.)					

Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
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Trade Name :	WIREMAN	Examination :I/II	II		Duration of the Trade / course :-TWO YEAR	
Learning Outcome: 23	23. Understand the constructional features, working principles of Alternator set. Test, Wire-up and run alternator. Synchronization of Alternator with due care and safety.					
Learning Outcome: Suboutcome	23.1 Plan work in compliance with standard safety norms related with Alternator. 23.2 Identify the parts of an Alternator, measure armature & field resistances and insulation resistance. 23.3 Wire-up, start and run an alternator and build up the voltage. 23.4 Load the Alternator & find out regulation at different loads. 23.5 Synchronise the Alternators with mains.					
Professional Skills (Trade Practical) With Indicative Hours	A.C. GENERATORS, MOTORS & STARTERS 132. Identification of Alternator of parts. (10 hrs.) 133. Running of Alternator by prime mover and loading it to find out regulation at different loads. Testing of alternators (IR tests). (28 hrs.) 134. Connect and test Parallel operation of alternators. (12 hrs.)					

Sl. No.	Maximum Marks (Total 100 Marks)												Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	15	5	10	5	10	10	5	10	15	15					
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
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Trade Name :	WIREMAN	Examination :I/II	II	Duration of the Trade / course :-TWO YEAR	
Learning Outcome: 24	24. Understand the types, constructional features, working principles of transformer (single & three phase) Connect and test Transformer.				
Learning Outcome: Suboutcome	24.1 Plan work in compliance with standard safety norms related with transformer. 24.2 Identify the types of transformers and their specifications. 24.3 Measure winding resistance & Insulation resistance of single phase & 3 phase transformer. 24.4 Identify the terminals; verify the transformation ratio of a single phase and 3 phase transformer. 24.5 Connect and test a single phase auto- transformer. 24.6 Determine the losses (iron loss and copper loss) efficiency and regulation of a single phase transformer at different loads. 24.7 Connect transformers in parallel.				
Professional Skills (Trade Practical) With Indicative Hours	135. Demonstration and practice on A.C single phase motors starting and running for specific requirements. (25 hrs.)				

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Craft Instructor Sign.

Group Instructor Sign.

Principal / Vice Principal Sign.

External Examiner Sign

ANNEXURE-II
FORMAT FOR INTERNAL ASSESSMENT

Name & Address of the Assessor :				Year of Enrollment :	
Name & Address of ITI (Govt./Pvt.) :		Industrial Training Institute, Satpur, Nashik		Date of Assessment :	
Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur		Assessment location : ITI Industry / ITI	
Trade Name :	WIREMAN	Examination :I/II	II	Duration of the Trade / course :-TWO YEAR	
Learning Outcome: 24	24. Understand the types, constructional features, working principles of transformer (single & three phase) Connect and test Transformer.				
Learning Outcome: Suboutcome	24.1 Plan work in compliance with standard safety norms related with transformer. 24.2 Identify the types of transformers and their specifications. 24.3 Measure winding resistance & Insulation resistance of single phase & 3 phase transformer. 24.4 Identify the terminals; verify the transformation ratio of a single phase and 3 phase transformer. 24.5 Connect and test a single phase auto- transformer. 24.6 Determine the losses (iron loss and copper loss) efficiency and regulation of a single phase transformer at different loads. 24.7 Connect transformers in parallel.				
Professional Skills (Trade Practical) With Indicative Hours	136. Constructional details of three phase squirrel cage induction motor and slip ring induction motor. (12 hrs.) 137. Determination of slip and efficiency. (8 hrs.)				

Sl. No.	Maximum Marks (Total 100 Marks)												Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	15	5	10	5	10	10	5	10	15	15					
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
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Craft Instructor Sign.

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Name & Address of the Assessor :					Year of Enrollment :		
Name & Address of ITI (Govt./Pvt.) :		Industrial Training Institute, Satpur, Nashik			Date of Assessment :		
Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur			Assessment location : ITI Industry / ITI		
Trade Name :	WIREMAN	Examination :I/II	II	Duration of the Trade / course :-TWO YEAR			
Learning Outcome: 24	24. Understand the types, constructional features, working principles of transformer (single & three phase) Connect and test Transformer.						
Learning Outcome: Suboutcome	24.1 Plan work in compliance with standard safety norms related with transformer. 24.2 Identify the types of transformers and their specifications. 24.3 Measure winding resistance & Insulation resistance of single phase & 3 phase transformer. 24.4 Identify the terminals; verify the transformation ratio of a single phase and 3 phase transformer. 24.5 Connect and test a single phase auto- transformer. 24.6 Determine the losses (iron loss and copper loss) efficiency and regulation of a single phase transformer at different loads. 24.7 Connect transformers in parallel.						
Professional Skills (Trade Practical) With Indicative Hours	138. Familiarization of DOL starter, Star- delta starter, Autotransformer starter and slip ring IM starter. (15 hrs.)						

Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
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Name & Address of the Assessor :					Year of Enrollment :		
Name & Address of ITI (Govt./Pvt.) :		Industrial Training Institute, Satpur, Nashik			Date of Assessment :		
Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur			Assessment location : ITI Industry / ITI		
Trade Name :	WIREMAN	Examination :I/II	II		Duration of the Trade / course :-TWO YEAR		
Learning Outcome: 24	24. Understand the types, constructional features, working principles of transformer (single & three phase) Connect and test Transformer.						
Learning Outcome: Suboutcome	24.1 Plan work in compliance with standard safety norms related with transformer. 24.2 Identify the types of transformers and their specifications. 24.3 Measure winding resistance & Insulation resistance of single phase & 3 phase transformer. 24.4 Identify the terminals; verify the transformation ratio of a single phase and 3 phase transformer. 24.5 Connect and test a single phase auto- transformer. 24.6 Determine the losses (iron loss and copper loss) efficiency and regulation of a single phase transformer at different loads. 24.7 Connect transformers in parallel.						
Professional Skills (Trade Practical) With Indicative Hours	139. Phase sequence test on three phase IM motors, Single phasing preventer. (14 hrs.)						

Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
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Name & Address of the Assessor :					Year of Enrollment :		
Name & Address of ITI (Govt./Pvt.) :		Industrial Training Institute, Satpur, Nashik			Date of Assessment :		
Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur			Assessment location : ITI Industry / ITI		
Trade Name :	WIREMAN	Examination :I/II	II		Duration of the Trade / course :-TWO YEAR		
Learning Outcome: 24	24. Understand the types, constructional features, working principles of transformer (single & three phase) Connect and test Transformer.						
Learning Outcome: Suboutcome	24.1 Plan work in compliance with standard safety norms related with transformer. 24.2 Identify the types of transformers and their specifications. 24.3 Measure winding resistance & Insulation resistance of single phase & 3 phase transformer. 24.4 Identify the terminals; verify the transformation ratio of a single phase and 3 phase transformer. 24.5 Connect and test a single phase auto- transformer. 24.6 Determine the losses (iron loss and copper loss) efficiency and regulation of a single phase transformer at different loads. 24.7 Connect transformers in parallel.						
Professional Skills (Trade Practical) With Indicative Hours	140. Identification of A.C and D.C motors (identify motors from the stock/scrap). (8 hrs.)						

Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
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Craft Instructor Sign.

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ANNEXURE-II
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Name & Address of the Assessor :					Year of Enrollment :		
Name & Address of ITI (Govt./Pvt.) :		Industrial Training Institute, Satpur, Nashik			Date of Assessment :		
Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur			Assessment location : ITI Industry / ITI		
Trade Name :	WIREMAN	Examination :I/II	II	Duration of the Trade / course :-TWO YEAR			
Learning Outcome: 24	24. Understand the types, constructional features, working principles of transformer (single & three phase) Connect and test Transformer.						
Learning Outcome: Suboutcome	24.1 Plan work in compliance with standard safety norms related with transformer. 24.2 Identify the types of transformers and their specifications. 24.3 Measure winding resistance & Insulation resistance of single phase & 3 phase transformer. 24.4 Identify the terminals; verify the transformation ratio of a single phase and 3 phase transformer. 24.5 Connect and test a single phase auto- transformer. 24.6 Determine the losses (iron loss and copper loss) efficiency and regulation of a single phase transformer at different loads. 24.7 Connect transformers in parallel.						
Professional Skills (Trade Practical) With Indicative Hours	141. Construction of simple control circuits using push button and contactors. (18 hrs.)						

Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
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Name & Address of the Assessor :					Year of Enrollment :	
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Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur			Assessment location : ITI Industry / ITI	
Trade Name :	WIREMAN	Examination :I/II	II	Duration of the Trade / course :-TWO YEAR		
Learning Outcome: 24	24. Understand the types, constructional features, working principles of transformer (single & three phase) Connect and test Transformer.					
Learning Outcome: Suboutcome	24.1 Plan work in compliance with standard safety norms related with transformer. 24.2 Identify the types of transformers and their specifications. 24.3 Measure winding resistance & Insulation resistance of single phase & 3 phase transformer. 24.4 Identify the terminals; verify the transformation ratio of a single phase and 3 phase transformer. 24.5 Connect and test a single phase auto- transformer. 24.6 Determine the losses (iron loss and copper loss) efficiency and regulation of a single phase transformer at different loads. 24.7 Connect transformers in parallel.					
Professional Skills (Trade Practical) With Indicative Hours	142. Connect and run the A.C single phase and 3-Ph motors by using starters. (25 hrs.)					

Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
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ANNEXURE-II
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Name & Address of the Assessor :					Year of Enrollment :	
Name & Address of ITI (Govt./Pvt.) :		Industrial Training Institute, Satpur, Nashik			Date of Assessment :	
Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur			Assessment location : ITI Industry / ITI	
Trade Name :	WIREMAN	Examination :I/II	II		Duration of the Trade / course :-TWO YEAR	
Learning Outcome: 24	24. Understand the types, constructional features, working principles of transformer (single & three phase) Connect and test Transformer.					
Learning Outcome: Suboutcome	24.1 Plan work in compliance with standard safety norms related with transformer. 24.2 Identify the types of transformers and their specifications. 24.3 Measure winding resistance & Insulation resistance of single phase & 3 phase transformer. 24.4 Identify the terminals; verify the transformation ratio of a single phase and 3 phase transformer. 24.5 Connect and test a single phase auto- transformer. 24.6 Determine the losses (iron loss and copper loss) efficiency and regulation of a single phase transformer at different loads. 24.7 Connect transformers in parallel.					
Professional Skills (Trade Practical) With Indicative Hours	143. A.C. motor panel wiring (slip ring Induction type) (12 hrs.)					

Sl. No.	Maximum Marks (Total 100 Marks)												Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	15	5	10	5	10	10	5	10	15	15					
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
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Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur										Assessment location : ITI Industry / ITI			
Trade Name :		WIREMAN			Examination :I/II			II		Duration of the Trade / course :-TWO YEAR					
Learning Outcome: 24		24. Understand the types, constructional features, working principles of transformer (single & three phase) Connect and test Transformer.													
Learning Outcome: Suboutcome		24.1 Plan work in compliance with standard safety norms related with transformer. 24.2 Identify the types of transformers and their specifications. 24.3 Measure winding resistance & Insulation resistance of single phase & 3 phase transformer. 24.4 Identify the terminals; verify the transformation ratio of a single phase and 3 phase transformer. 24.5 Connect and test a single phase auto- transformer. 24.6 Determine the losses (iron loss and copper loss) efficiency and regulation of a single phase transformer at different loads. 24.7 Connect transformers in parallel.													
Professional Skills (Trade Practical) With Indicative Hours		POWER WIRING FOR DC & AC MOTORS 144. Practice power and control circuits on boards. (10 hrs.) 145. Assembly & testing of the frame for a panel – suitable for motor generator set. I.S. 3072 Part-II of 1861. (15 hrs.) 146. Erection of panel board, fixing of controlling and starting equipment, necessary meters. (12 hrs.)													
Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
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Name & Address of the Assessor :				Year of Enrollment :	
Name & Address of ITI (Govt./Pvt.) :		Industrial Training Institute, Satpur, Nashik		Date of Assessment :	
Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur		Assessment location : ITI Industry / ITI	
Trade Name :	WIREMAN	Examination :I/II	II	Duration of the Trade / course :-TWO YEAR	
Learning Outcome: 24	24. Understand the types, constructional features, working principles of transformer (single & three phase) Connect and test Transformer.				
Learning Outcome: Suboutcome	24.1 Plan work in compliance with standard safety norms related with transformer. 24.2 Identify the types of transformers and their specifications. 24.3 Measure winding resistance & Insulation resistance of single phase & 3 phase transformer. 24.4 Identify the terminals; verify the transformation ratio of a single phase and 3 phase transformer. 24.5 Connect and test a single phase auto- transformer. 24.6 Determine the losses (iron loss and copper loss) efficiency and regulation of a single phase transformer at different loads. 24.7 Connect transformers in parallel.				
Professional Skills (Trade Practical) With Indicative Hours	147. Identification of types of transformers. (18 hrs.) 148. Test / check the polarity of single phase transformer. (15 hrs.) 149. Insulation testing of single phase and Three Phase. (15 hrs.) 150. Conducting No-load/O.C. & short circuit tests. (15 hrs.) 151. Connection of transformers, efficiencies of transformers, parallel operation of transformer. (25 hrs.) 152. Ratio test and voltage regulation. (12 hrs.)				

Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
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Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur			Assessment location : ITI Industry / ITI		
Trade Name :	WIREMAN	Examination :I/II	II		Duration of the Trade / course :-TWO YEAR		
Learning Outcome: 25	25. Prepare single line diagram and layout plan of electrical transmission & distribution systems and power plants with knowledge of principle applied. Make and test power connection to substation equipments with care and safety.						
Learning Outcome: Suboutcome	25.1 Plan work in compliance with standard safety norms related with substation & over head lines. 25.2 Prepare layout plan, single line diagram of different type of power plant and project report of all equipment's and machineries of the visited plant. 25.3 Prepare single line diagram of the institute's electrical substation & distribution system. 25.4 Demonstrate testing and use of line protecting devices as per IE rules. 25.5 Make power connection to substation equipments. 25.6 Identify the parts of substation equipments like circuit breakers and operate them. 25.7 Practice crimping of lugs to underground cable and connect the cable to bus bars & equipments with due care. 25.8 Start the generator, build up voltage and synchronise with mains by observing due care and safety.						
Professional Skills (Trade Practical) With Indicative Hours	153. Familiarize and practice operation of OH line components. (20 hrs.) 154. Visit to generating station (Thermal/ Hydro/Nuclear) Visit to a sub-station to familiarize OH line components. (35 hrs.) 155. Prepare a line diagram of the institute/ ITI supply system. (20 hrs.)						

Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
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Name & Address of the Assessor :				Year of Enrollment :	
Name & Address of ITI (Govt./Pvt.) :		Industrial Training Institute, Satpur, Nashik		Date of Assessment :	
Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur		Assessment location : ITI Industry / ITI	
Trade Name :	WIREMAN	Examination :I/II	II	Duration of the Trade / course :-TWO YEAR	
Learning Outcome: 25	25. Prepare single line diagram and layout plan of electrical transmission & distribution systems and power plants with knowledge of principle applied. Make and test power connection to substation equipments with care and safety.				
Learning Outcome: Suboutcome	25.1 Plan work in compliance with standard safety norms related with substation & over head lines. 25.2 Prepare layout plan, single line diagram of different type of power plant and project report of all equipment's and machineries of the visited plant. 25.3 Prepare single line diagram of the institute's electrical substation & distribution system. 25.4 Demonstrate testing and use of line protecting devices as per IE rules. 25.5 Make power connection to substation equipments. 25.6 Identify the parts of substation equipments like circuit breakers and operate them. 25.7 Practice crimping of lugs to underground cable and connect the cable to bus bars & equipments with due care. 25.8 Start the generator, build up voltage and synchronise with mains by observing due care and safety.				
Professional Skills (Trade Practical) With Indicative Hours	156. Demonstration, testing and use of line protecting devices as per I.E. Rules. (10 hrs.) 157. Visit to Distribution - station. (15 hrs.)				

Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
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Group Instructor Sign.

Principal / Vice Principal Sign.

External Examiner Sign

**ANNEXURE-II
FORMAT FOR INTERNAL ASSESSMENT**

Name & Address of the Assessor :												Year of Enrollment :			
Name & Address of ITI (Govt./Pvt.) :		Industrial Training Institute, Satpur, Nashik										Date of Assessment :			
Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur										Assessment location : ITI Industry / ITI			
Trade Name :		WIREMAN			Examination :I/II			II		Duration of the Trade / course :-TWO YEAR					
Learning Outcome: 25		25. Prepare single line diagram and layout plan of electrical transmission & distribution systems and power plants with knowledge of principle applied. Make and test power connection to substation equipments with care and safety.													
Learning Outcome: Suboutcome		25.1 Plan work in compliance with standard safety norms related with substation & over head lines. 25.2 Prepare layout plan, single line diagram of different type of power plant and project report of all equipment's and machineries of the visited plant. 25.3 Prepare single line diagram of the institute's electrical substation & distribution system. 25.4 Demonstrate testing and use of line protecting devices as per IE rules. 25.5 Make power connection to substation equipments. 25.6 Identify the parts of substation equipments like circuit breakers and operate them. 25.7 Practice crimping of lugs to underground cable and connect the cable to bus bars & equipments with due care. 25.8 Start the generator, build up voltage and synchronise with mains by observing due care and safety.													
Professional Skills (Trade Practical) With Indicative Hours		158. Familiarization and operation of various CBs ACB, VCB, SF6, OCB etc. (12 hrs.) 159. Visit to sub-station. (18 hrs.) 160. Demonstration and Tests on Multi range switches, Rotary switches. (10 hrs.) 161. Cooker control Panel, Power circuit switches Thermostats. Mercury switches, visit/in plant training in a industry. (10 hrs.)													
Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
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Craft Instructor Sign.

Group Instructor Sign.

Principal / Vice Principal Sign.

External Examiner Sign

ANNEXURE-II
FORMAT FOR INTERNAL ASSESSMENT

Name & Address of the Assessor :					Year of Enrollment :		
Name & Address of ITI (Govt./Pvt.) :		Industrial Training Institute, Satpur, Nashik			Date of Assessment :		
Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur			Assessment location : ITI Industry / ITI		
Trade Name :	WIREMAN	Examination :I/II	II	Duration of the Trade / course :-TWO YEAR			
Learning Outcome: 25	25. Prepare single line diagram and layout plan of electrical transmission & distribution systems and power plants with knowledge of principle applied. Make and test power connection to substation equipments with care and safety.						
Learning Outcome: Suboutcome	25.1 Plan work in compliance with standard safety norms related with substation & over head lines. 25.2 Prepare layout plan, single line diagram of different type of power plant and project report of all equipment's and machineries of the visited plant. 25.3 Prepare single line diagram of the institute's electrical substation & distribution system. 25.4 Demonstrate testing and use of line protecting devices as per IE rules. 25.5 Make power connection to substation equipments. 25.6 Identify the parts of substation equipments like circuit breakers and operate them. 25.7 Practice crimping of lugs to underground cable and connect the cable to bus bars & equipments with due care. 25.8 Start the generator, build up voltage and synchronise with mains by observing due care and safety.						
Professional Skills (Trade Practical) With Indicative Hours	162. Familiarize the parts of substations low and high voltages. (25 hrs.)						

Sl. No.	Candidate Name	Father's/ Mother's Name	Maximum Marks (Total 100 Marks)										Total internal assessment Marks	Result (Y/N)	Trainee Sign.
			15	5	10	5	10	10	5	10	15	15			
(01)	(02)	(03)	Safety consciousness (04)	Workplace hygiene (05)	Attendance/ Punctuality (06)	Ability to follow Manuals/ Written instructions (07)	Application of Knowledge (08)	Skills to handle tools & equipment (09)	Economical use of materials (10)	Speed in doing work (11)	Quality in workmanship (12)	VIVA (13)	(14)	(15)	(16)
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Group Instructor Sign.

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ANNEXURE-II
FORMAT FOR INTERNAL ASSESSMENT

Name & Address of the Assessor :				Year of Enrollment :	
Name & Address of ITI (Govt./Pvt.) :		Industrial Training Institute, Satpur, Nashik		Date of Assessment :	
Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur		Assessment location : ITI Industry / ITI	
Trade Name :	WIREMAN	Examination :I/II	II	Duration of the Trade / course :-TWO YEAR	
Learning Outcome: 25	25. Prepare single line diagram and layout plan of electrical transmission & distribution systems and power plants with knowledge of principle applied. Make and test power connection to substation equipments with care and safety.				
Learning Outcome: Suboutcome	25.1 Plan work in compliance with standard safety norms related with substation & over head lines. 25.2 Prepare layout plan, single line diagram of different type of power plant and project report of all equipment's and machineries of the visited plant. 25.3 Prepare single line diagram of the institute's electrical substation & distribution system. 25.4 Demonstrate testing and use of line protecting devices as per IE rules. 25.5 Make power connection to substation equipments. 25.6 Identify the parts of substation equipments like circuit breakers and operate them. 25.7 Practice crimping of lugs to underground cable and connect the cable to bus bars & equipments with due care. 25.8 Start the generator, build up voltage and synchronise with mains by observing due care and safety.				
Professional Skills (Trade Practical) With Indicative Hours	163. Demonstration and practice in terminating an U.G. cable to a bus bar chamber. (25 hrs.) 164. Crimping lugs to the conductors of U.G. cable and connection to bus bar Loop connection for other circuit. (25 hrs.)				

Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
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ANNEXURE-II
FORMAT FOR INTERNAL ASSESSMENT

Name & Address of the Assessor :													Year of Enrollment :			
Name & Address of ITI (Govt./Pvt.) :			Industrial Training Institute, Satpur, Nashik										Date of Assessment :			
Name & Address of the Industry :			Trimbakeshwar Road, Satpur MIDC, Satpur										Assessment location : ITI Industry / ITI			
Trade Name :		WIREMAN				Examination :I/II				II		Duration of the Trade / course :-TWO YEAR				
Learning Outcome: 26		Understand the constructional features, working principles of Alternator set. Test, Wire-up and run alternator. Synchronization of Alternator with														
Professional Skills (Trade Practical) With Indicative Hours		Synchronizing 165. Building up the alternator output voltage, synchronizing of bus bar voltage with generated voltage. (25 hrs.)														
Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.	
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA				
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
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ANNEXURE-II
FORMAT FOR INTERNAL ASSESSMENT

Name & Address of the Assessor :					Year of Enrollment :	
Name & Address of ITI (Govt./Pvt.) :		Industrial Training Institute, Satpur, Nashik			Date of Assessment :	
Name & Address of the Industry :		Trimbakeshwar Road, Satpur MIDC, Satpur			Assessment location : ITI Industry / ITI	
Trade Name :	WIREMAN	Examination :I/II	II	Duration of the Trade / course :-TWO YEAR		
Learning Outcome: 26	26. Select, assemble, test and wire-up control panel wiring.					
Learning Outcome: Suboutcome	26.1 Draw the layout diagram of 3 phase AC motor control cabinet. 26.2 Mount the control elements and wiring accessories on the control panel. 26.3 Practice wiring the control cabinet for local and remote control of induction motor. 26.4 Draw and wire up the control panel for forward/ reverse operation of induction motor. 26.5 Test the control panel for all the required logics.					
Professional Skills (Trade Practical) With Indicative Hours	Control panel wiring 166. Preparation of control panel board and its layout fixing of indicating meters /Instruments, Control devices, Protection devices. (35 hrs.) 167. Fixing of cable entry and exit points (15 hrs.)					

Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
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ANNEXURE-II
FORMAT FOR INTERNAL ASSESSMENT

Name & Address of the Assessor :													Year of Enrollment :		
Name & Address of ITI (Govt./Pvt.) :			Industrial Training Institute, Satpur, Nashik										Date of Assessment :		
Name & Address of the Industry :			Trimbakeshwar Road, Satpur MIDC, Satpur										Assessment location : ITI Industry / ITI		
Trade Name :		WIREMAN			Examination :I/II			II		Duration of the Trade / course :-TWO YEAR					
Learning Outcome: 26		26. Select, assemble, test and wire-up control panel wiring.													
Learning Outcome: Suboutcome		26.1 Draw the layout diagram of 3 phase AC motor control cabinet. 26.2 Mount the control elements and wiring accessories on the control panel. 26.3 Practice wiring the control cabinet for local and remote control of induction motor. 26.4 Draw and wire up the control panel for forward/ reverse operation of induction motor. 26.5 Test the control panel for all the required logics.													
Professional Skills (Trade Practical) With Indicative Hours		168. Preventive maintenance and routine tests. (8 hrs.) 169. Fault location and remedy practice both in domestic and industrial wirings. (10 hrs.) 170. Practice in fixing conduit along with the girder, steel structures station etc. (7 hrs.)													
Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
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ANNEXURE-II
FORMAT FOR INTERNAL ASSESSMENT

Name & Address of the Assessor :													Year of Enrollment :August 2018		
Name & Address of ITI (Govt./Pvt.) :			Industrial Training Institute, Satpur, Nashik										Date of Assessment :		
Name & Address of the Industry :			Trimbakeshwar Road, Satpur MIDC, Satpur										Assessment location : ITI Industry / ITI		
Trade Name :		WIREMAN			Examination :I/II			II		Duration of the Trade / course :-TWO YEAR					
Learning Outcome: 27		27. Plan, estimate and costing of different types of wiring system as per Indian Electricity rule.													
Learning Outcome: Suboutcome		27.1 Prepare layout and wiring diagram of domestic, commercial and industrial installation using IER symbols. 27.2 Record the various electrical wiring accessories available in market with price list and compare it. 27.3 Plan, Estimate and Costing of Domestic wiring as per layout. 27.4 Plan, Estimate and Costing of commercial wiring as per layout. 27.5 Plan, Estimate and Costing of Industrial wiring as per layout.													
Professional Skills (Trade Practical) With Indicative Hours		Planning, Estimation and Costing of Wiring- 171. Planning and Preparation of layout for domestic, commercial, Multi storied building wiring and workshop electrical wiring. (50 hrs.) 172. Estimation and costing of Labour, materials and accessories as per layout. (25 hrs.)													
Sl. No.	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)	Trainee Sign.
	Candidate Name	Father's/ Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA			
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