

# Program Engineering

Specialization	Electrical Installations and
	Equipment
Course Number	020303142
Course Title	Domestic electrical wiring workshop
Credit Hours	2
Theoretical Hours	0
Practical Hours	6



### جامعة البلقاء التطبيقية

#### **Brief Course Description:**

Controlling electrical bulbs lighting, Wiring electrical bells. Wiring interphone. Wiring street lightings. Security doors wiring opening and closing control methods. Traffic lights systems. Earthing.

#### **Course Objectives:**

Upon the completion of the course, the student will be able to:

- 1. Detect the electrical faults.
- 2. Fix electrical circuits.
- 3. Make various connections for domestic installations

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**Detailed Course Description:** 

Unit Number	Unit Name	<b>Unit Content</b>	Time Needed
1	Control Lamp From Two Positions	<ul><li>Construction.</li><li>Operation.</li><li>Troubleshooting</li></ul>	
2	Fluorescent Lamp Lighting Connection	<ul><li>Construction.</li><li>Operation.</li><li>Troubleshootin.</li></ul>	
3	<b>Connection Electrical Bell</b>	<ul><li>Construction.</li><li>Operation.</li><li>Troubleshooting.</li></ul>	
4	Connection Electrical Socket	<ul><li>Construction.</li><li>Operation.</li><li>Troubleshooting</li></ul>	
5	Detect the Electrical Faults in Electrical Circuit & Fixing it	<ul><li>Short Circuit.</li><li>Open Circuit.</li><li>Short to ground</li></ul>	

**Evaluation Strategies:** 

Exams		Percentage	Date
Exams	midterm Exam	20%	//
	Final Exam	50%	//
Reports and Projects		30%	

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#### **Teaching Methodology:**

❖ .Laboratory

#### **References:**

- H.P. Richter and W. Creighton. Schwan. Practical electrical wiring, residential, farm and industrial, MCGROW-HILL Book Company, 19<sup>th</sup> edition 2005. ( ISBN#0971977917)
- 2. John E. Traister. Security / Fire alarm systems,
- 3. Trimmer, understanding and servicing alarm systems, 3<sup>rd</sup> edition.
- 4. Power Distribution and Illumination system, electrical 1999.
- 5. Basic Electrical Installation work 2005 by Trevor Linsley.
- 6. Guide to low voltage and limited energy systems. Mike Holt 1